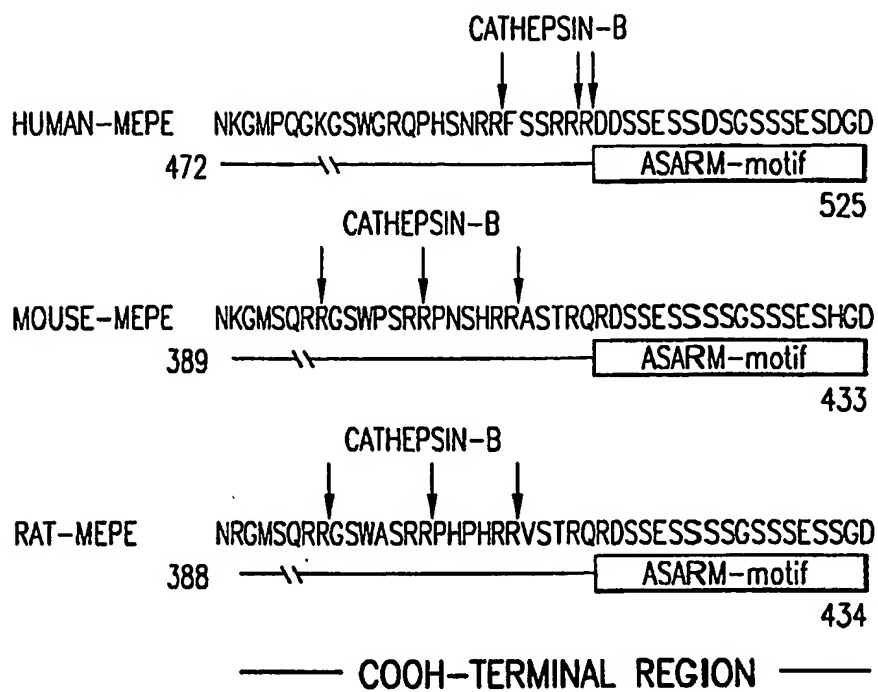
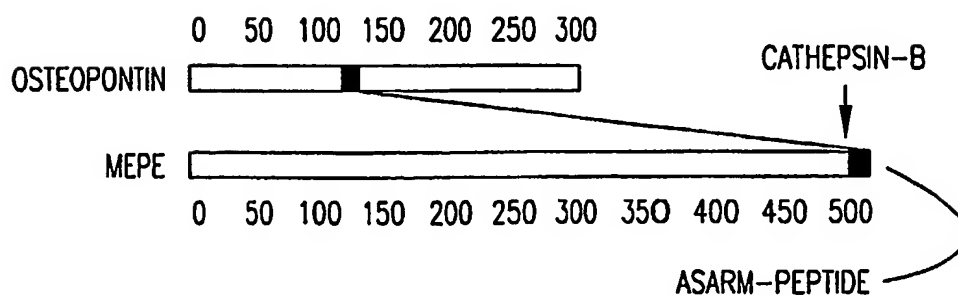


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**FIG. 1A**



**FIG. 1 B**

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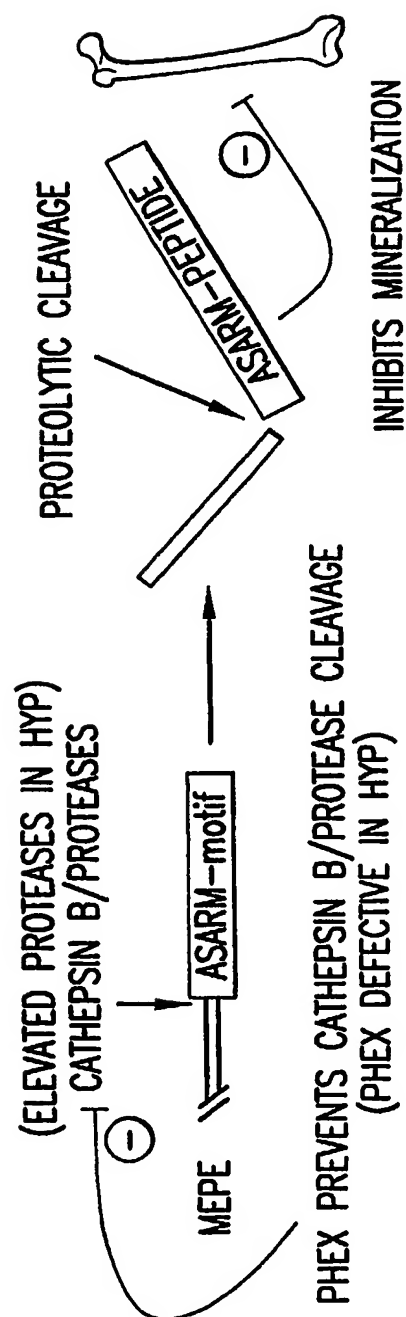


FIG.2

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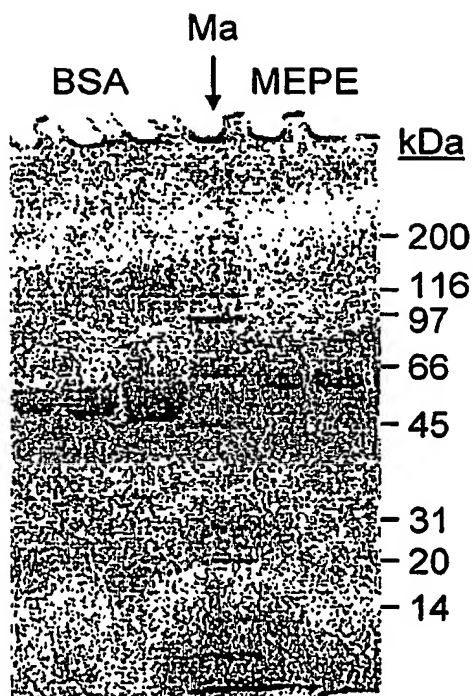


FIG.3A

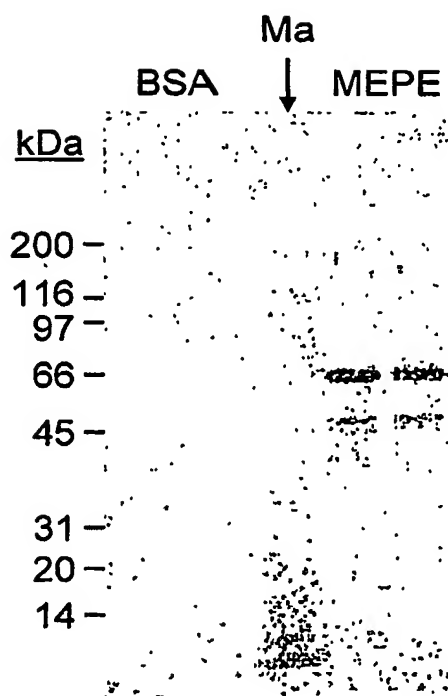


FIG.3B

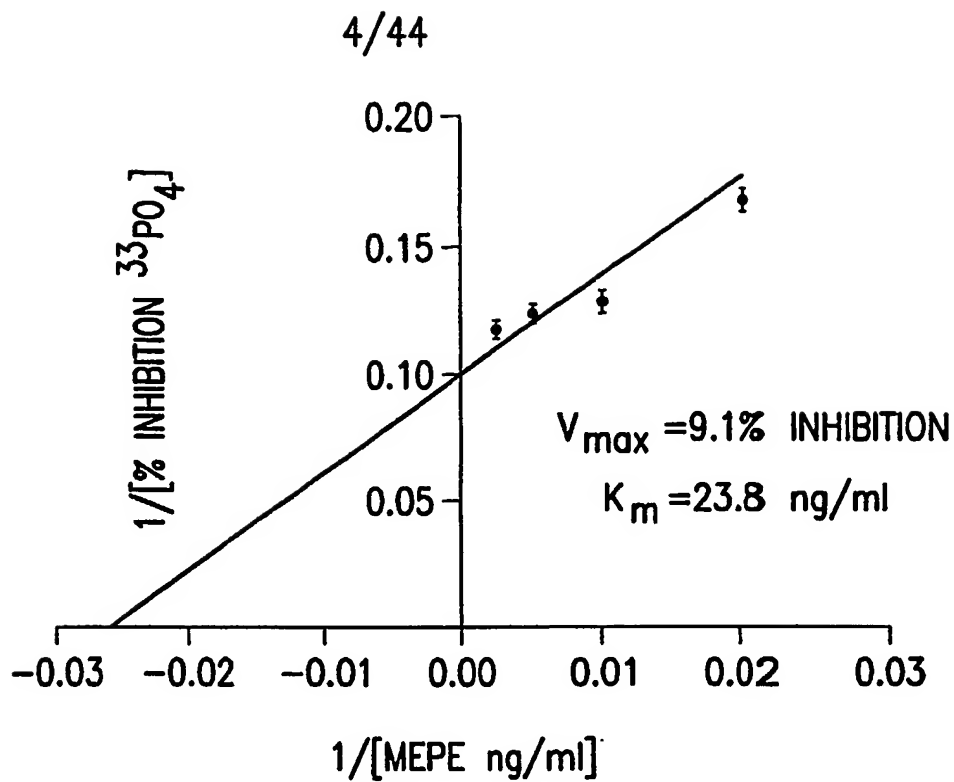


FIG. 4A

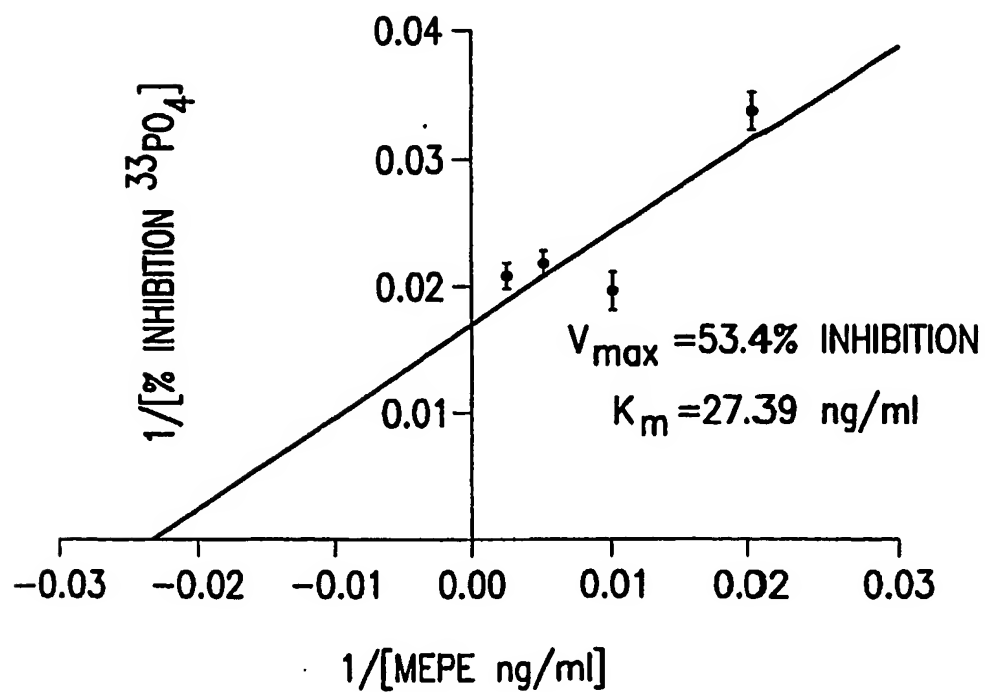


FIG. 4B

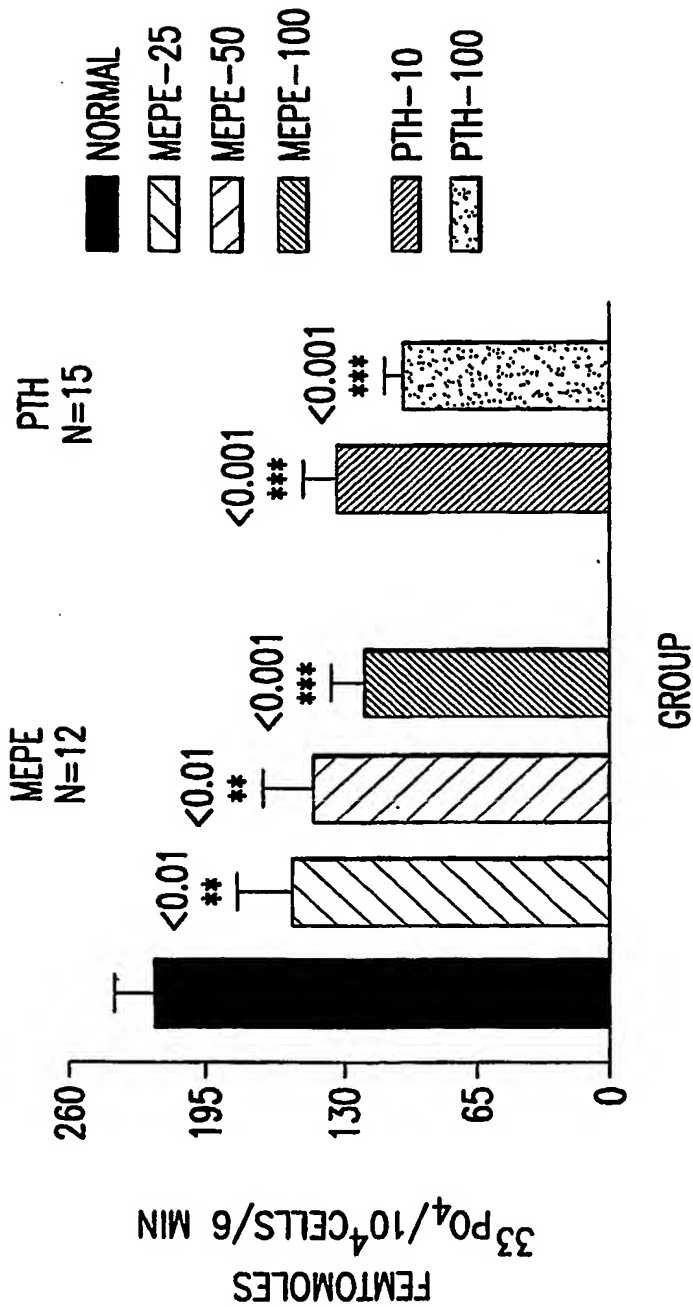
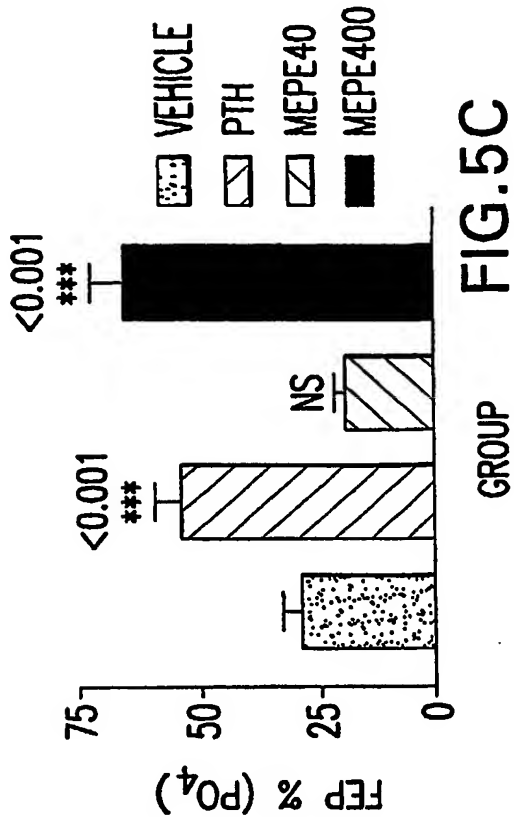
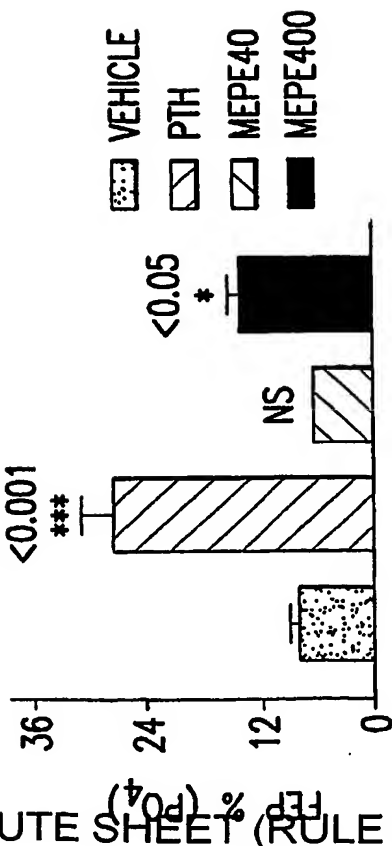
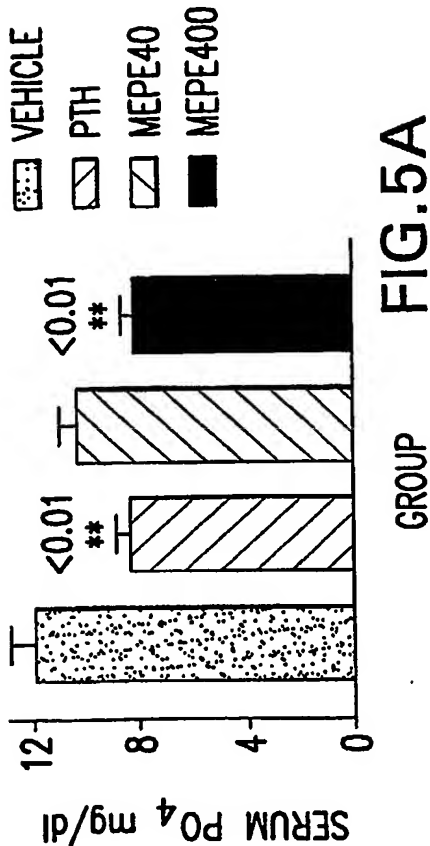
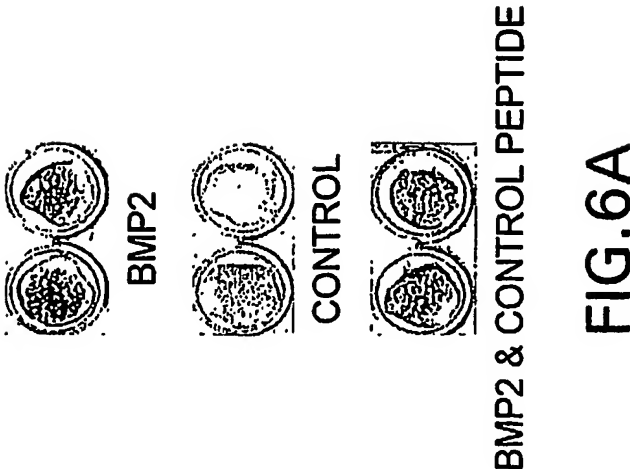
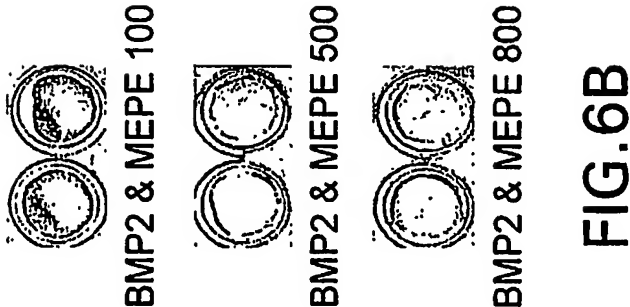
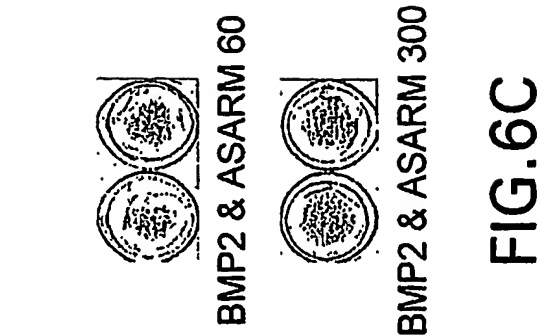


FIG.4C

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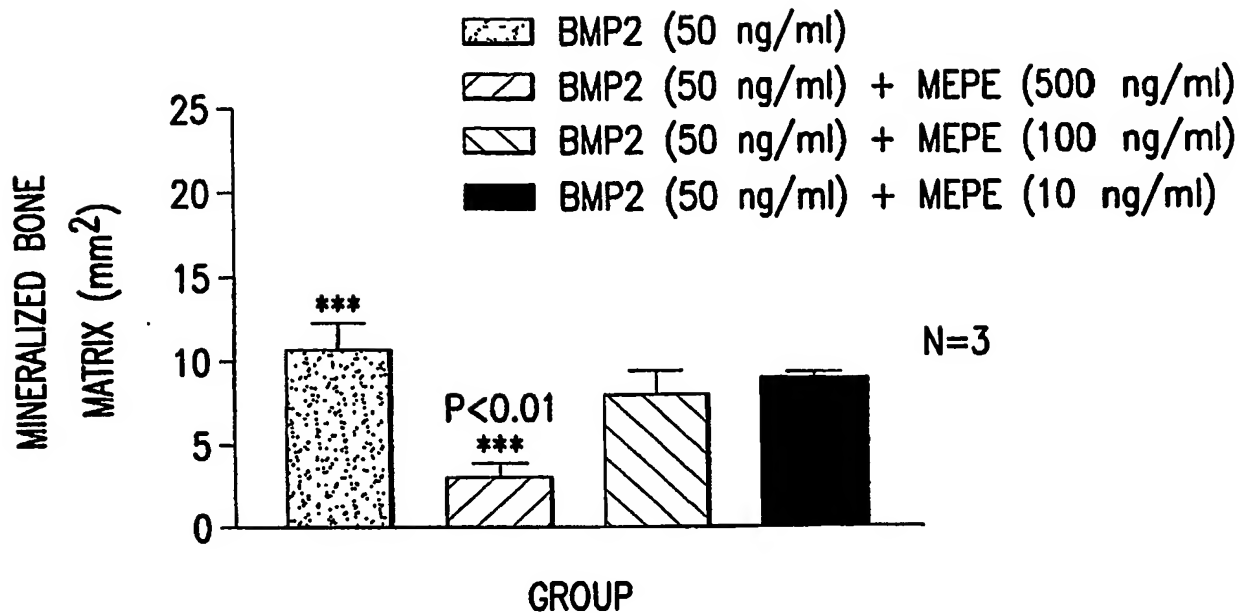


FIG.7A

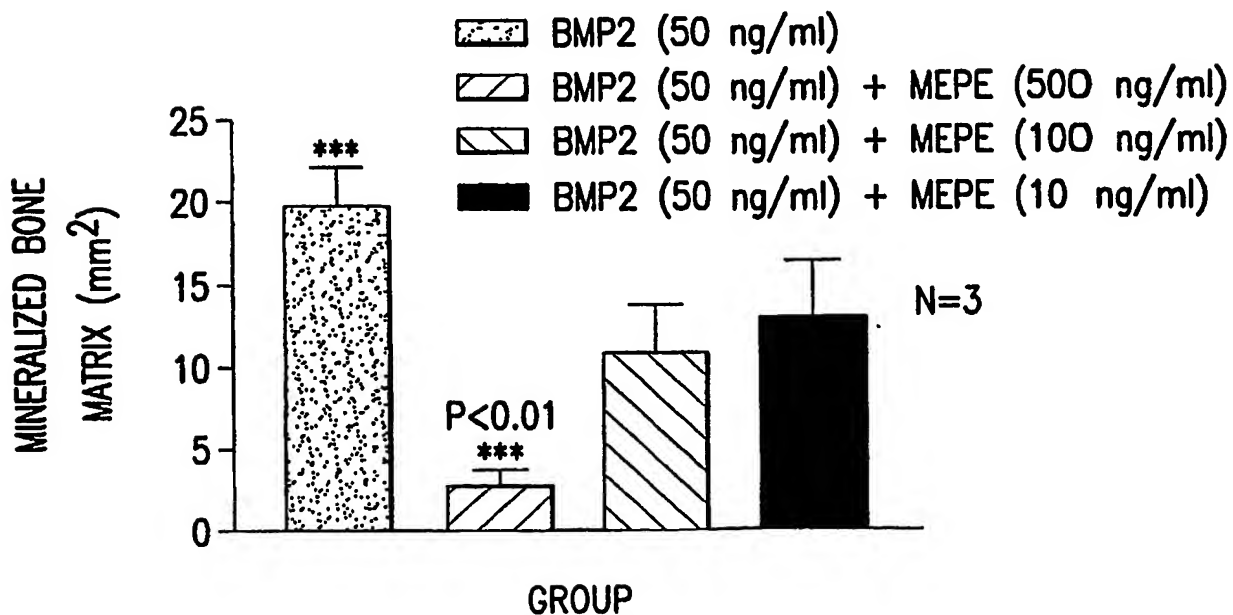
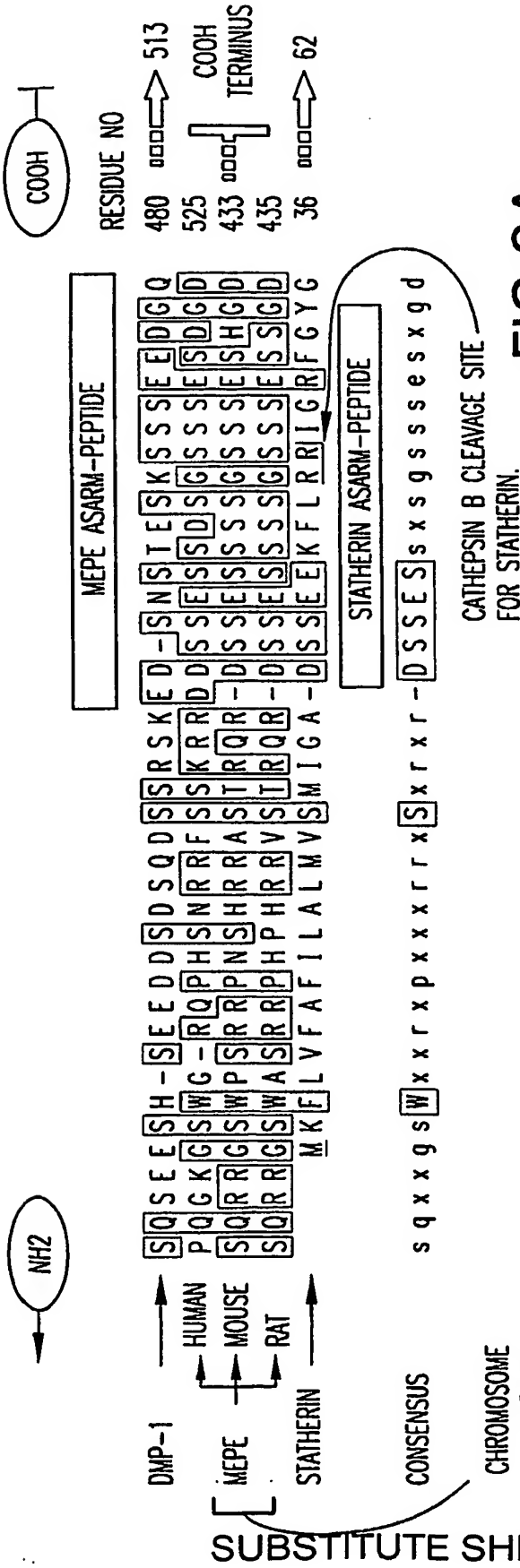
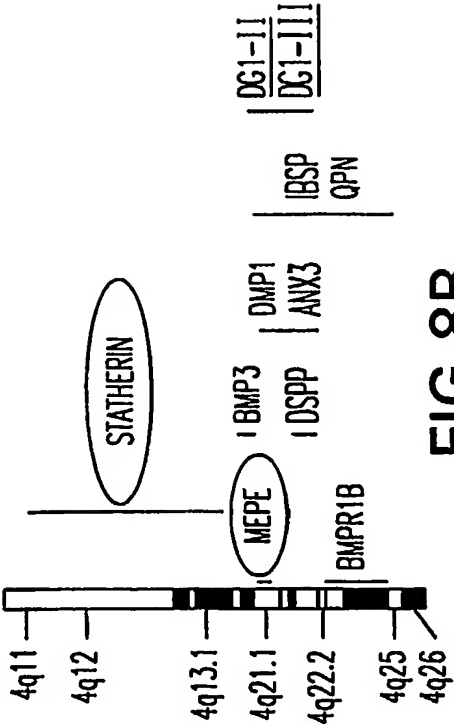


FIG.7B





CHROMOSOMAL LOCATION (4q 21.1):  
MEPE, STATHERIN AND SIBLINGS



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SERUM																								
31 HOURS																								
VALUES	VEHICLE			PTH			MEPE 40			MEPE 400			PTH			VEHICLE			MEPE 40			MEPE 400		
	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	
Glucose	9.29	0.48	7.69	0.71	9.56	0.49	9.66	0.57	11.94	0.90	8.320**	0.48	10.36	0.65	8.23**	0.33								
Ca (mg/dl)	6.03	0.29	7.10*	0.32	5.64	0.26	6.94*	0.33	4.76	0.32	4.43	0.33	4.74	0.32	5.78	0.27								
Cholesterol	196.40	12.64	195.80	28.02	223.75	17.74	195.60	7.139	194.80	12.65	225.20	19.70	230.00	35.00	182.25	17.38								
Alb	153.80	0.86	152.800	1.11	151.80	1.32	153.00	0.32	155.00	0.55	155.20	0.86	155.33	1.33	154.40	0.60								
Alb	9.06	0.34	8.96	0.44	8.48	0.46	8.30	0.19	9.06	0.34	8.96	0.44	11.27	1.15	9.99	0.68								
Cl	119.40	0.51	122.60	1.21	117.40	0.93	119.20	0.66	119.00	0.70	116.00	1.18	121.75	1.11	118.80	0.58								
Calc Phos	67.89	7.39	64.01	5.17	62.07	7.82	58.84	3.56	65.06	6.04	46.31*	3.56	45.63*	4.52	46.31**	2.8								
25 D3	-	-	-	-	-	-	-	-	25.20	1.25	61.17	1.17	31.5	0.54	45.0	1.95								
Creatinine	1.07	0.09	1.04	0.03	0.92	0.07	1.01	0.04	0.97	0.10	0.86	0.05	0.92	0.07	0.87	0.08								
FeP	7.79	0.94	27.42***	3.38	6.27	0.30	14.43**	0.89	28.71	3.97	53.26***	4.51	19.35	2.17	65.00***	6.47								
APC	2.13	0.09	8.97***	1.14	2.28	0.14	4.73***	0.24	3.77	0.32	11.93***	0.63	2.65	0.16	6.79***	0.32								
PEI	3.47	0.11	7.47***	0.95	3.96	0.24	5.34*	0.27	8.89	0.76	11.19	0.56	7.19	0.44	29.88***	1.41								
URINE																								
31 HOURS																								
VALUES	VEHICLE			PTH			MEPE 40			MEPE 400			PTH			VEHICLE			MEPE 40			MEPE 400		
	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	VALUE	VALUE	SEM	
Pi (mg/dl)	31.84	0.23	61.25	1.00	41.09	0.61	56.06	0.82	175.91	4.39	238.29	2.88	124.31	2.45	297.40	7.43								
Pi (mg)	0.66	0.005	2.19	0.03	0.72	0.01	1.50	0.02	5.66	0.14	13.10	0.16	3.62	0.07	7.43	0.18								
Ca (mg/dl)	16.59	0.35	17.57	0.48	15.28	0.38	14.50	0.46	5.63	0.20	3.18	0.12	6.14	0.17	5.78	0.15								
Creatinine	48.38	1.27	32.56	0.09	62.67	0.38	41.16	0.69	51.79	1.03	47.32	0.43	58.60	0.57	48.89	0.35								

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FIG. 9

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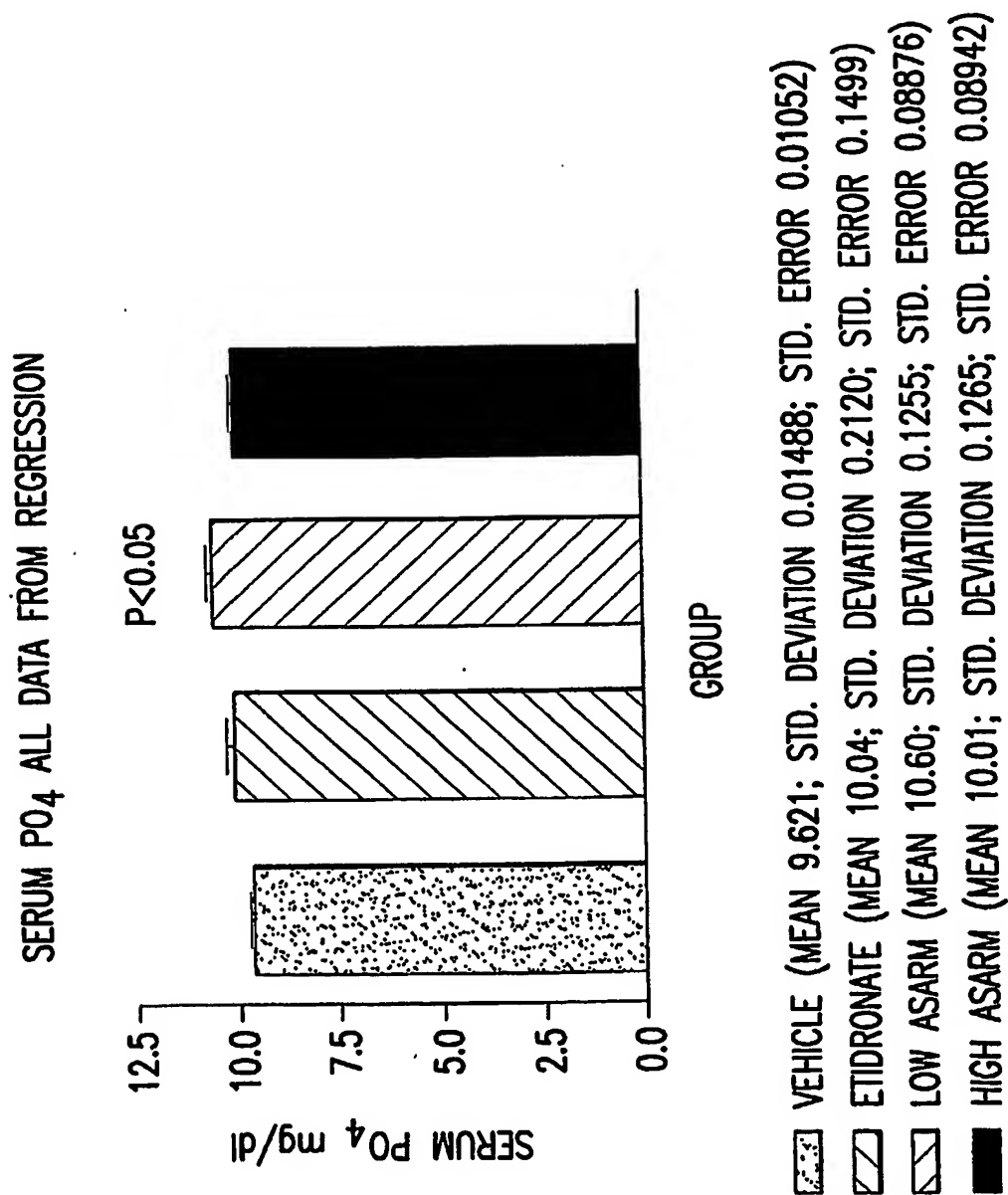


FIG.10

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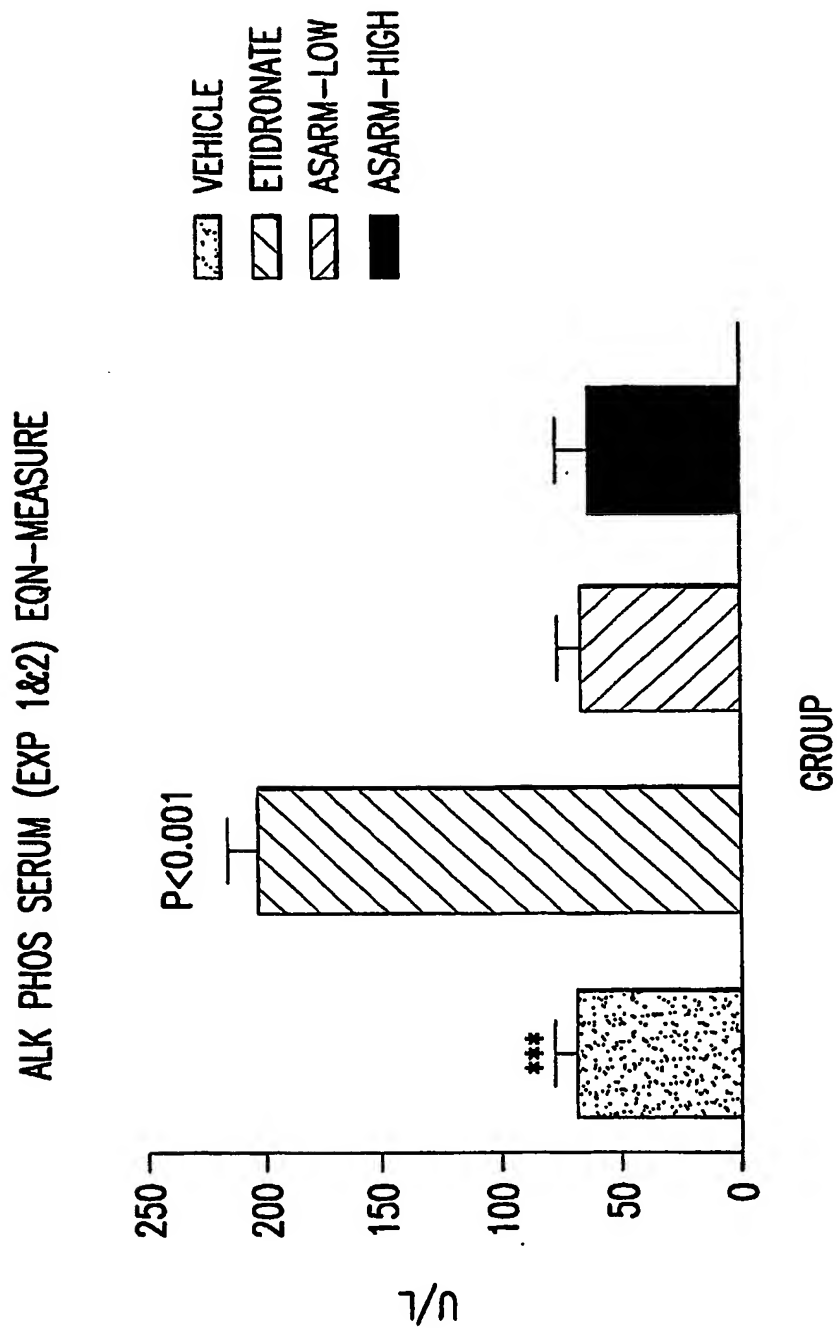


FIG.11

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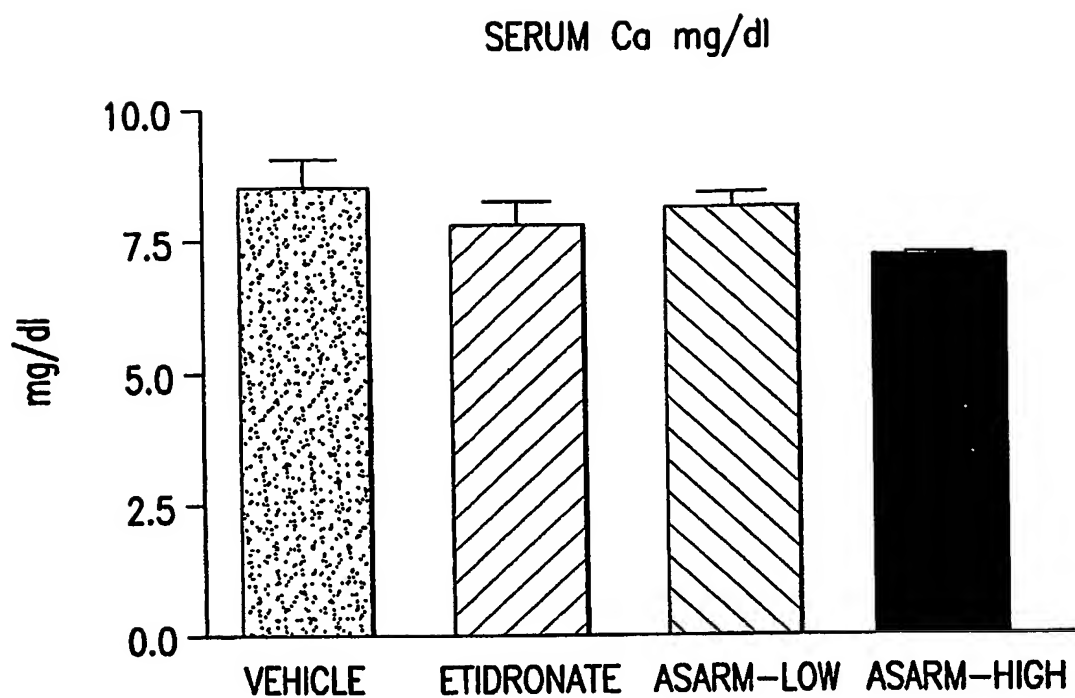


FIG.12

PO<sub>4</sub> EXCRETED IN mg 24 h/MOUSE PG05 URINE  
(REPEATED MEASURES ANOVA (n=3) TWO EXPERIMENTS)

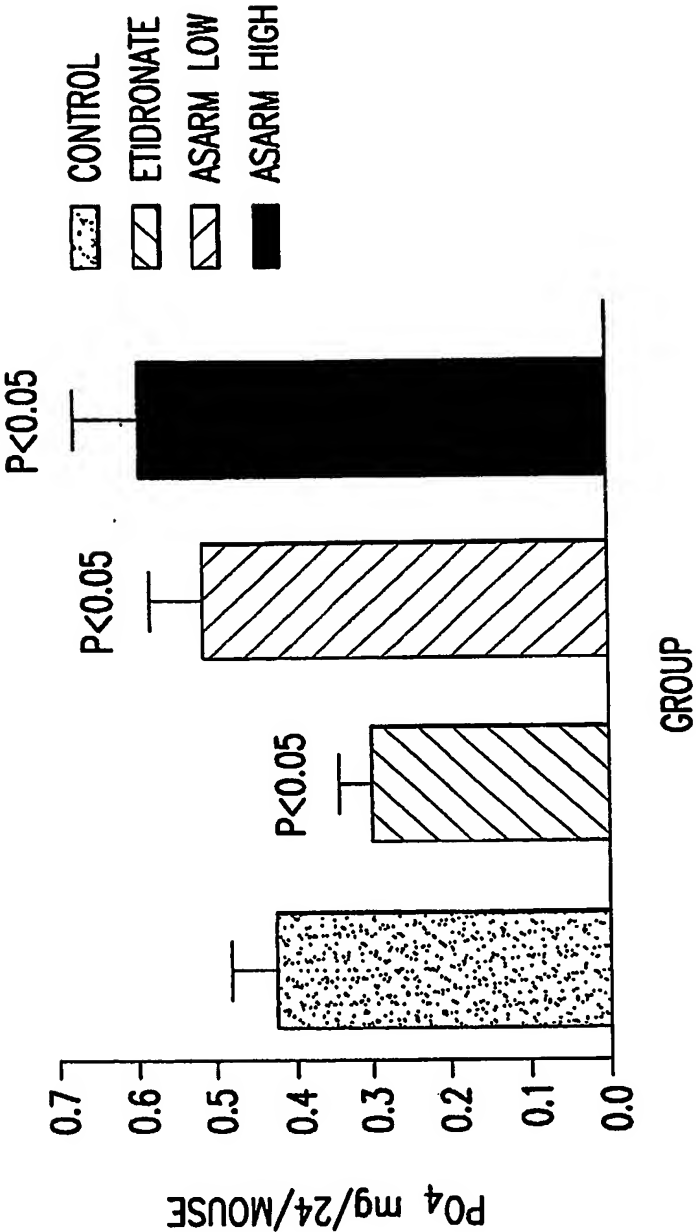


FIG.13

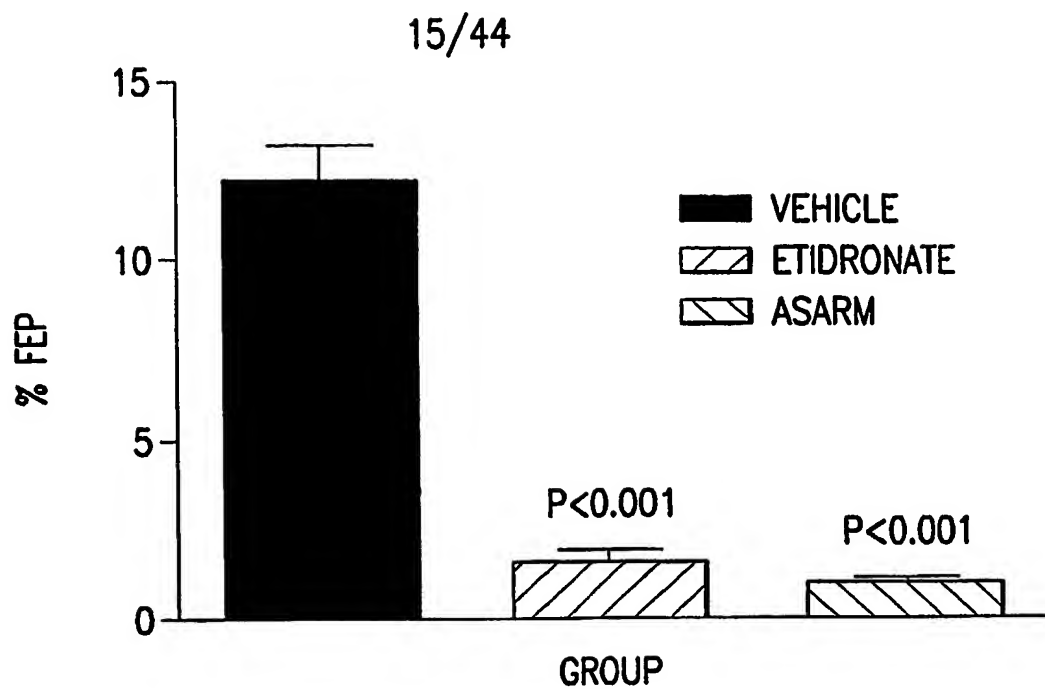


FIG. 14A

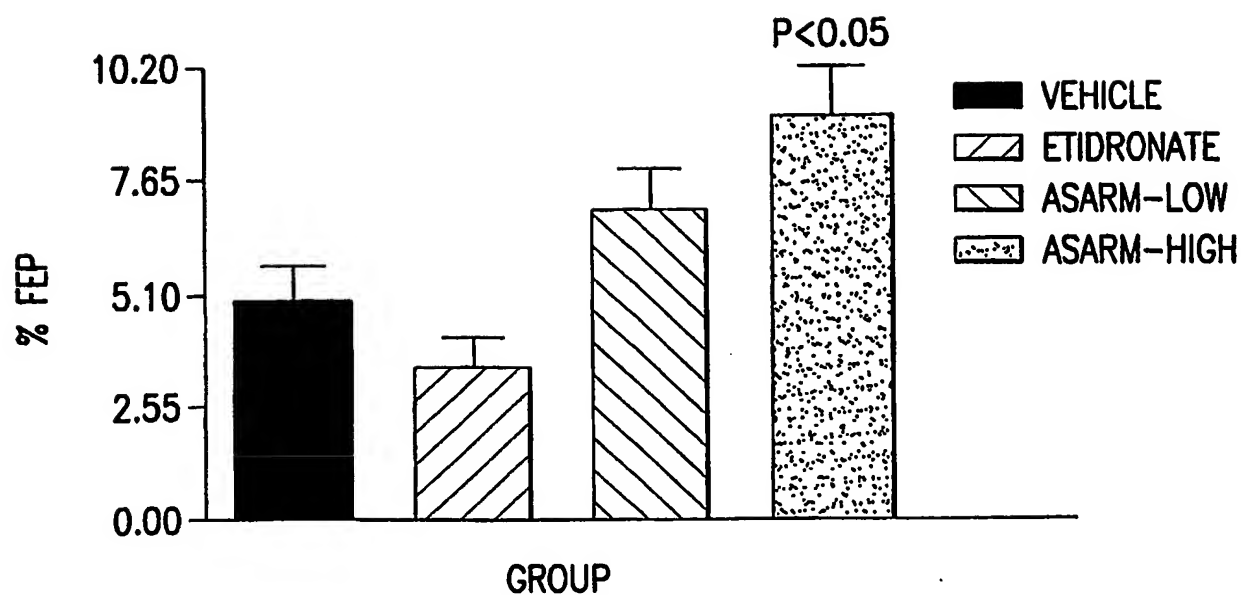


FIG. 14B

SUBSTITUTE SHEET (RULE 26)

HYPERPHOSPHATEMIA INDUCTION  
(3 GROUPS, N=5, 2 EXPERIMENTS EACH  
INDIVIDUAL SAMPLE REPEATED 6 TIMES PER  
EXPERIMENT)

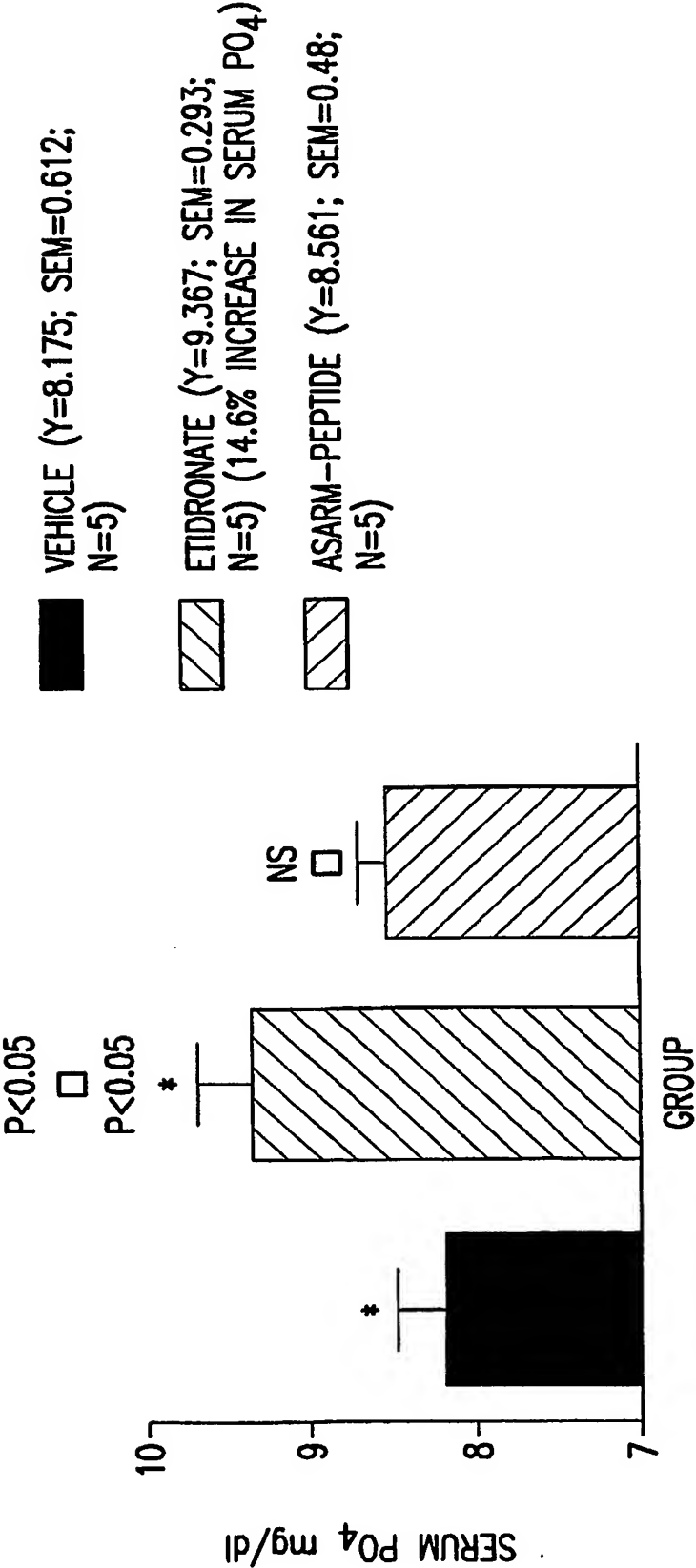


FIG.15



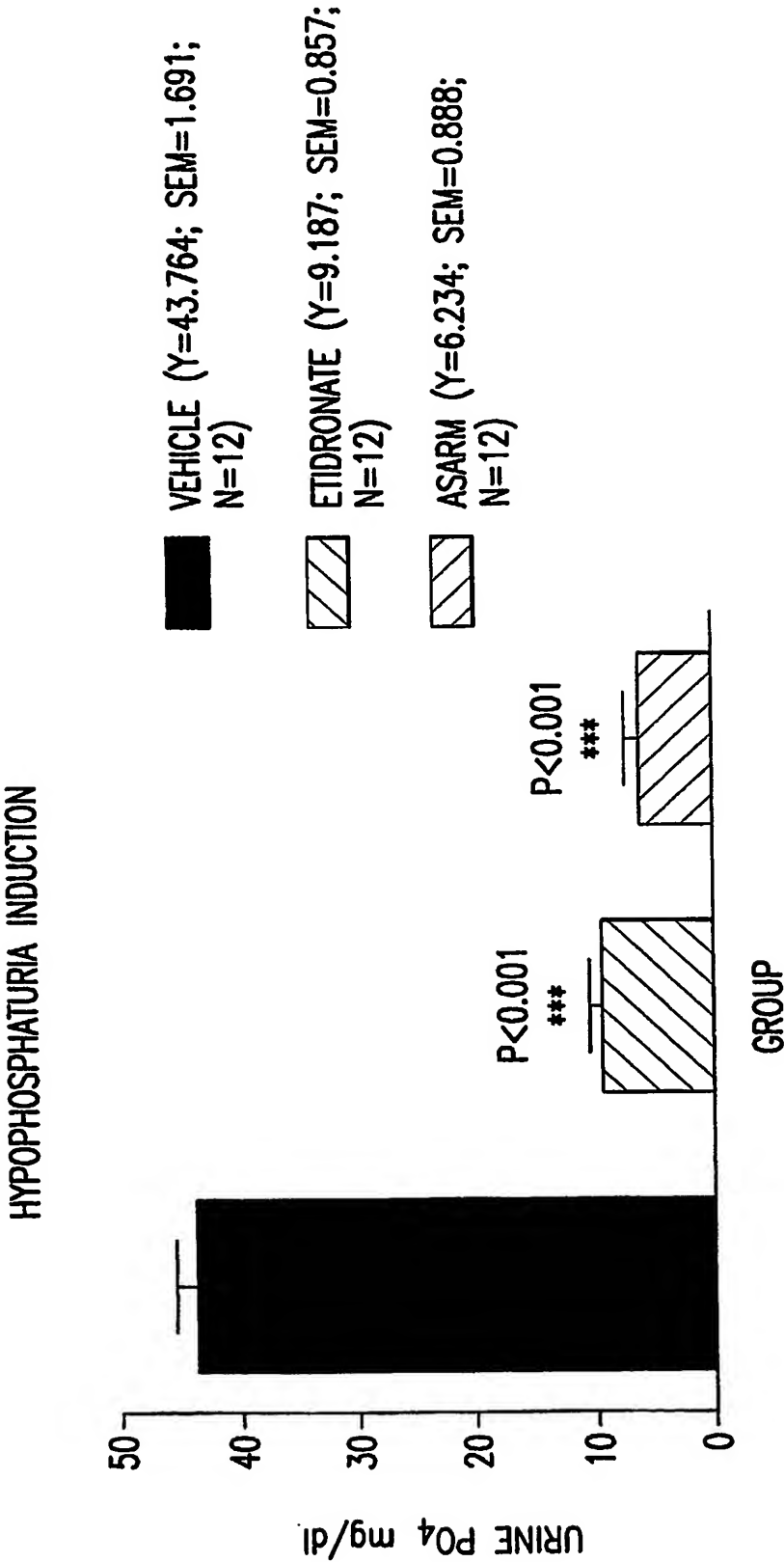


FIG.16

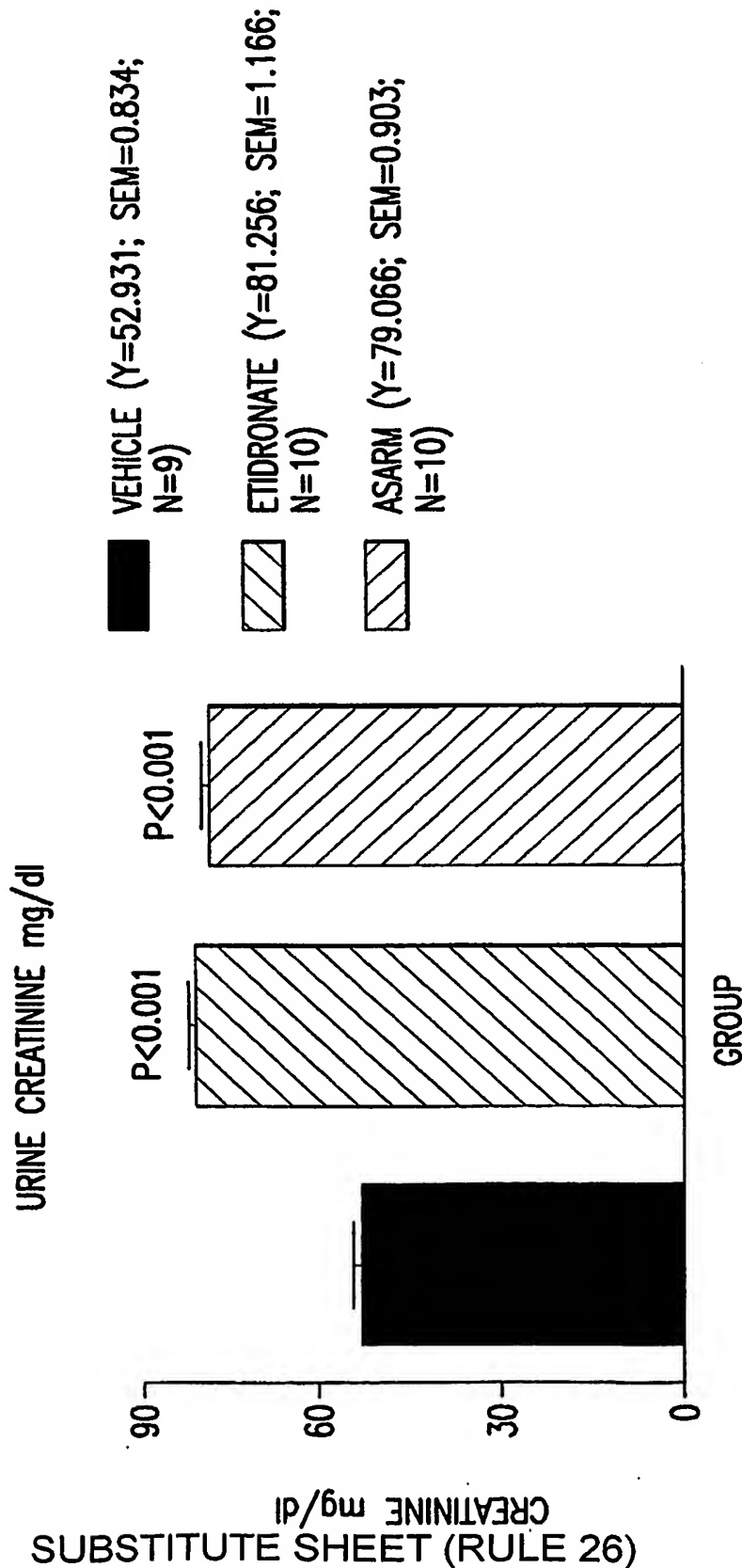


FIG.17

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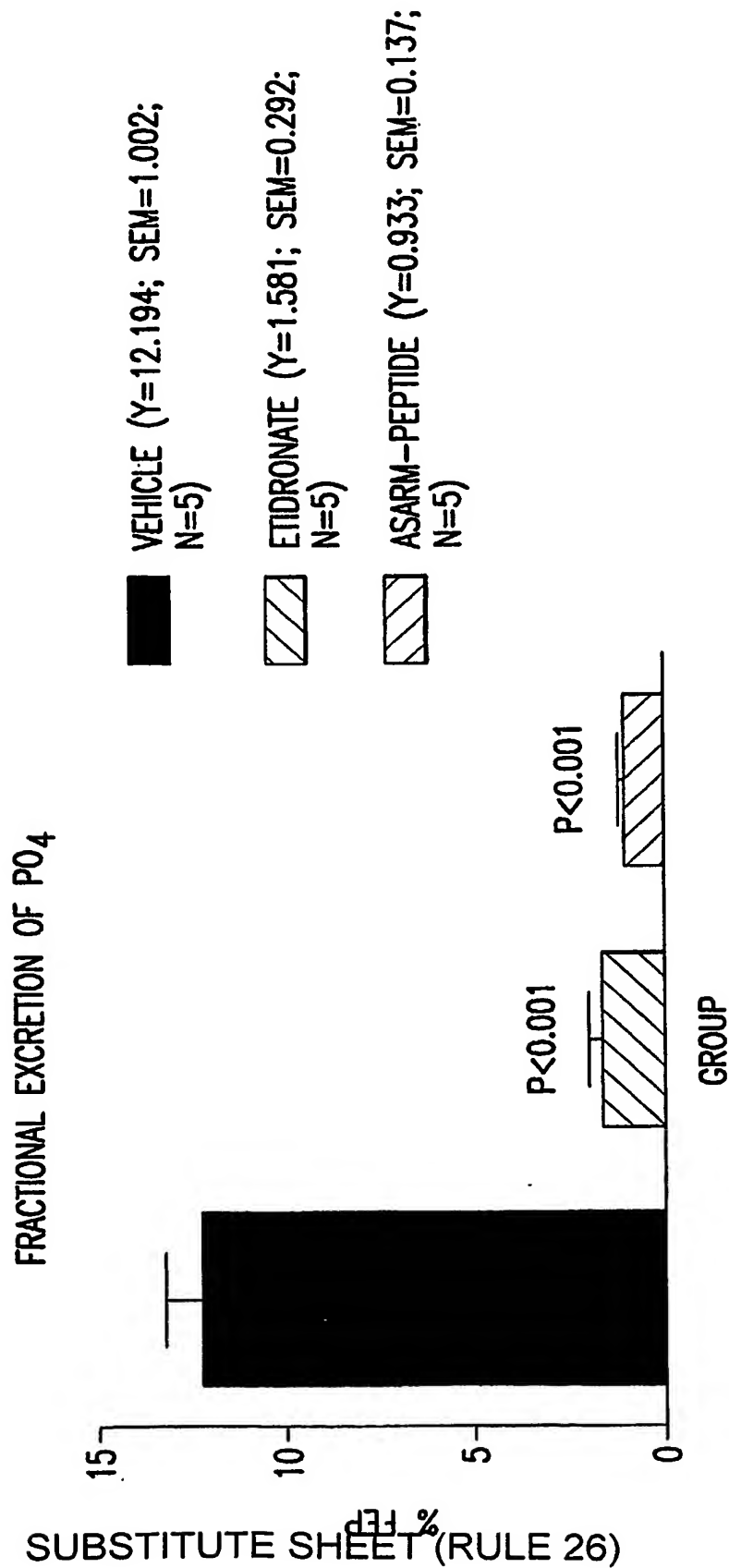


FIG.18

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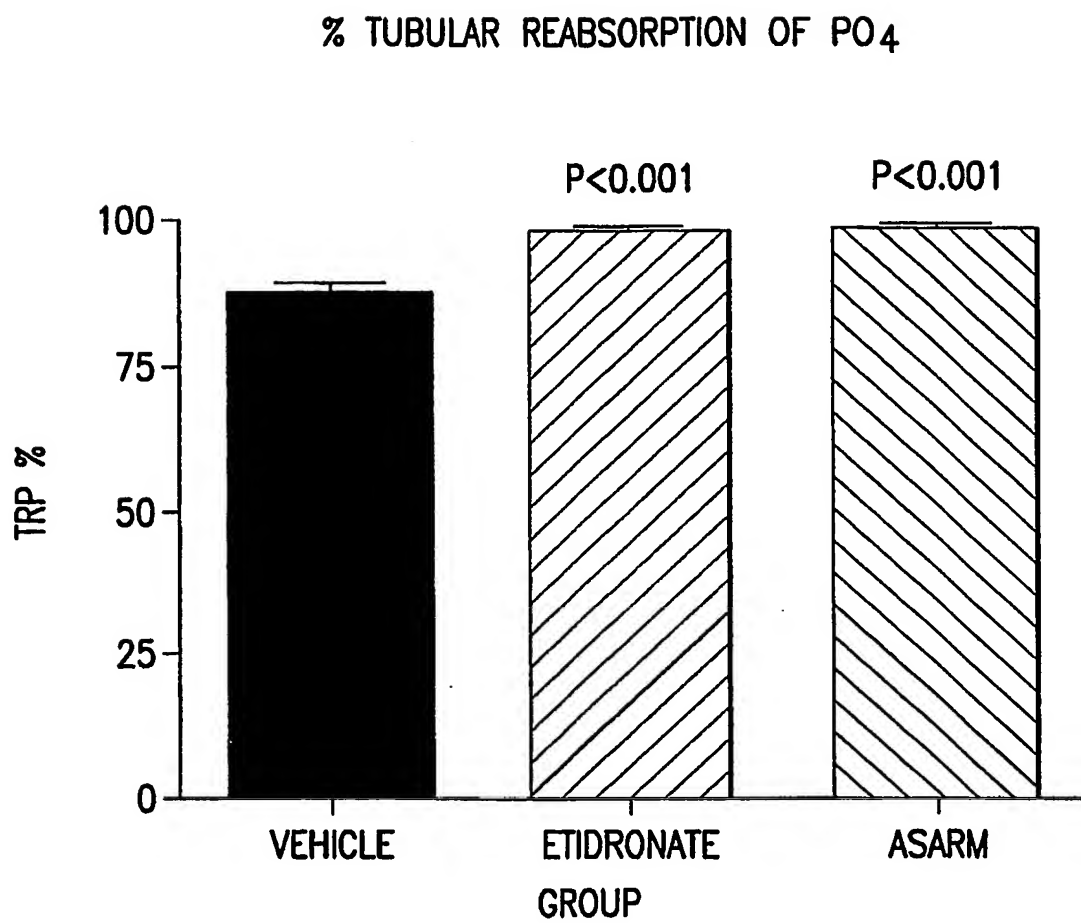


FIG. 19

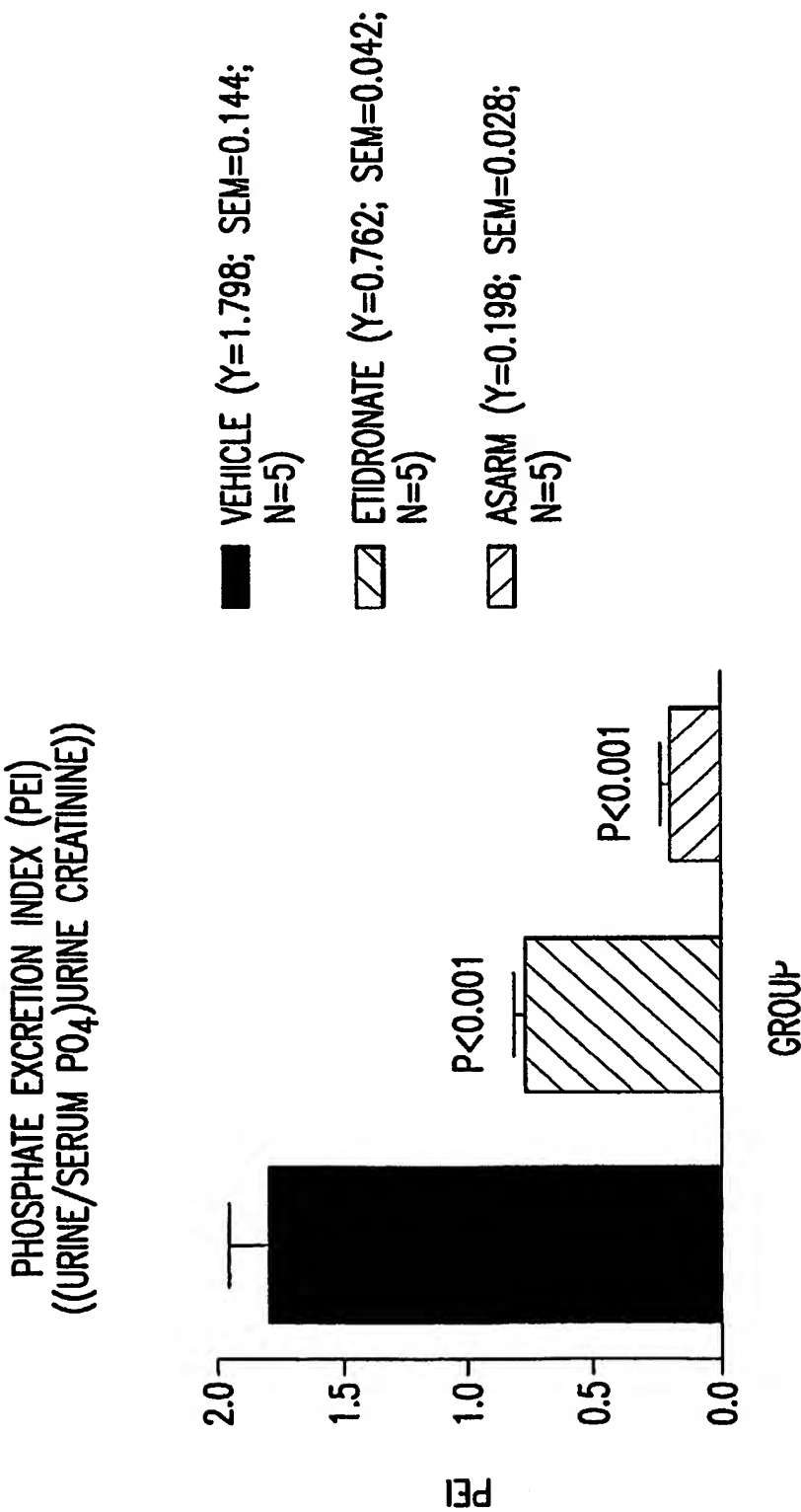


FIG.20

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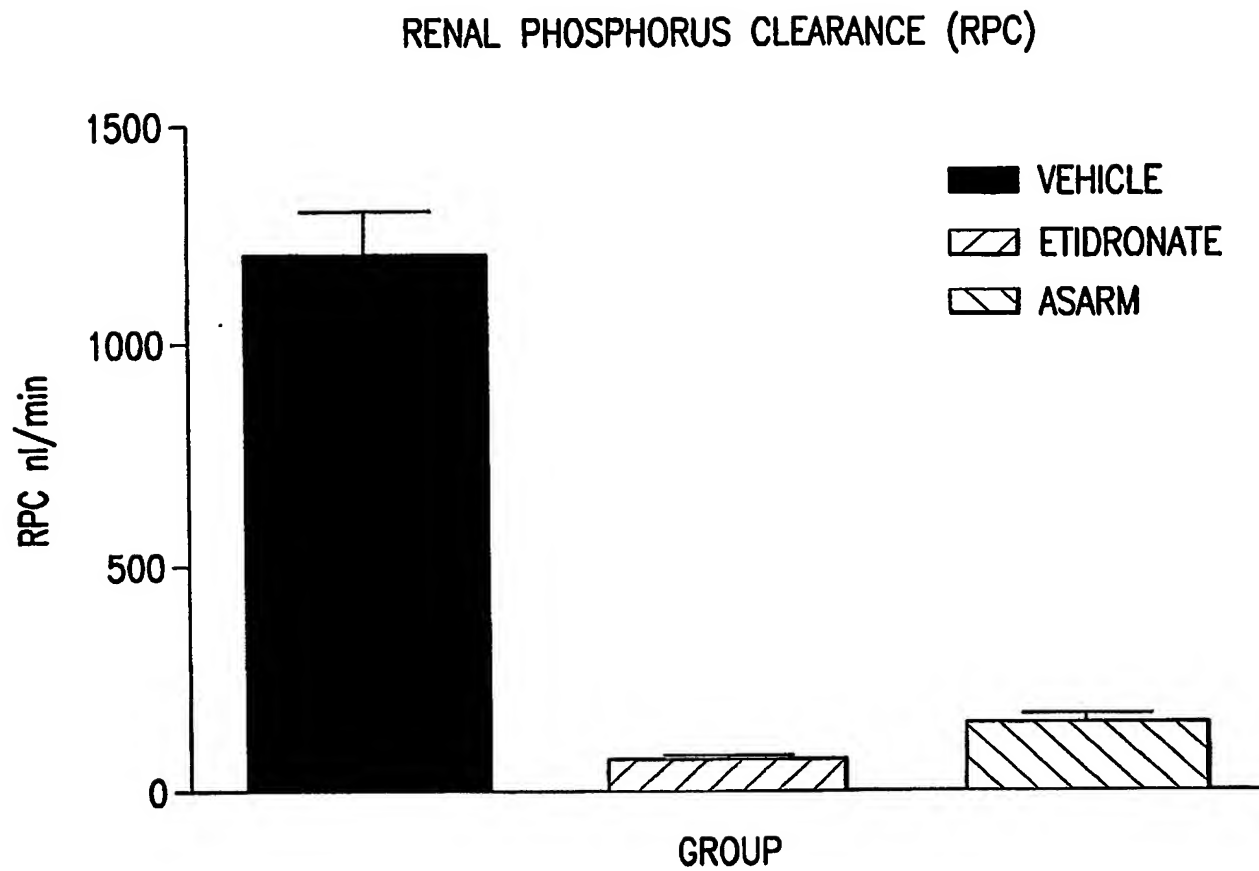


FIG.21

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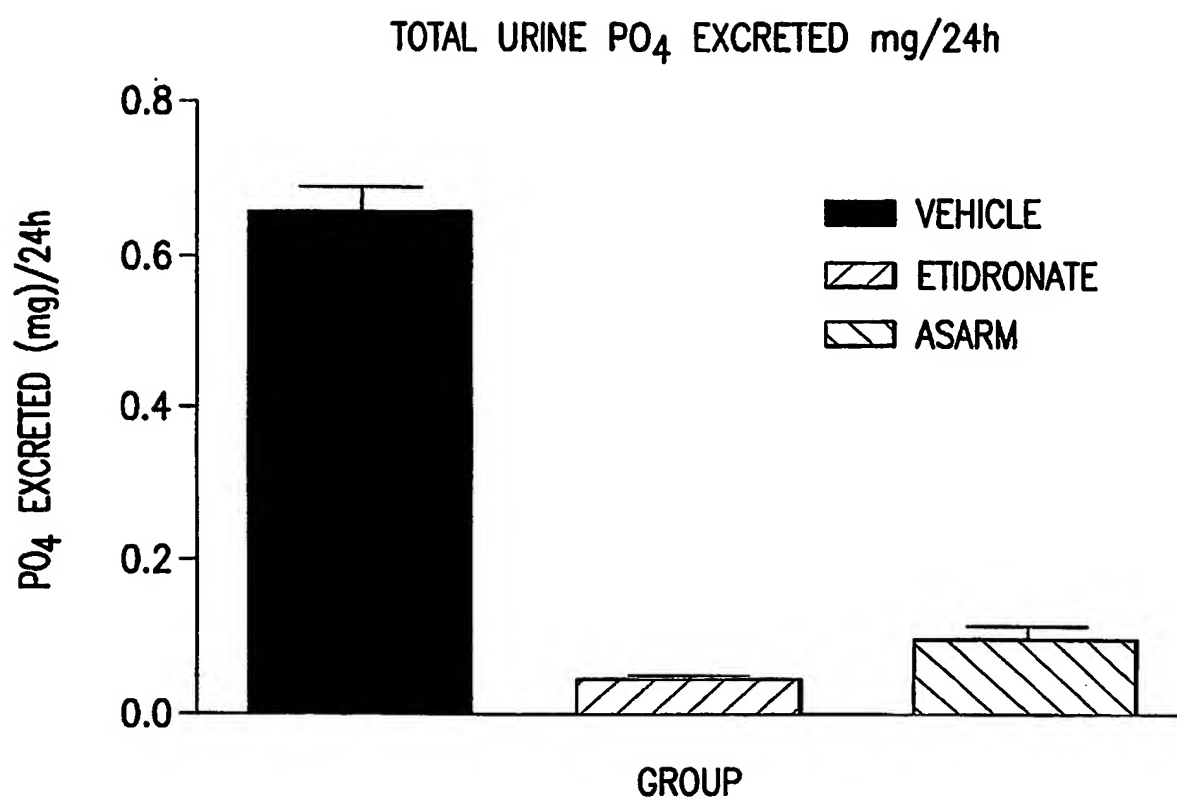


FIG.22

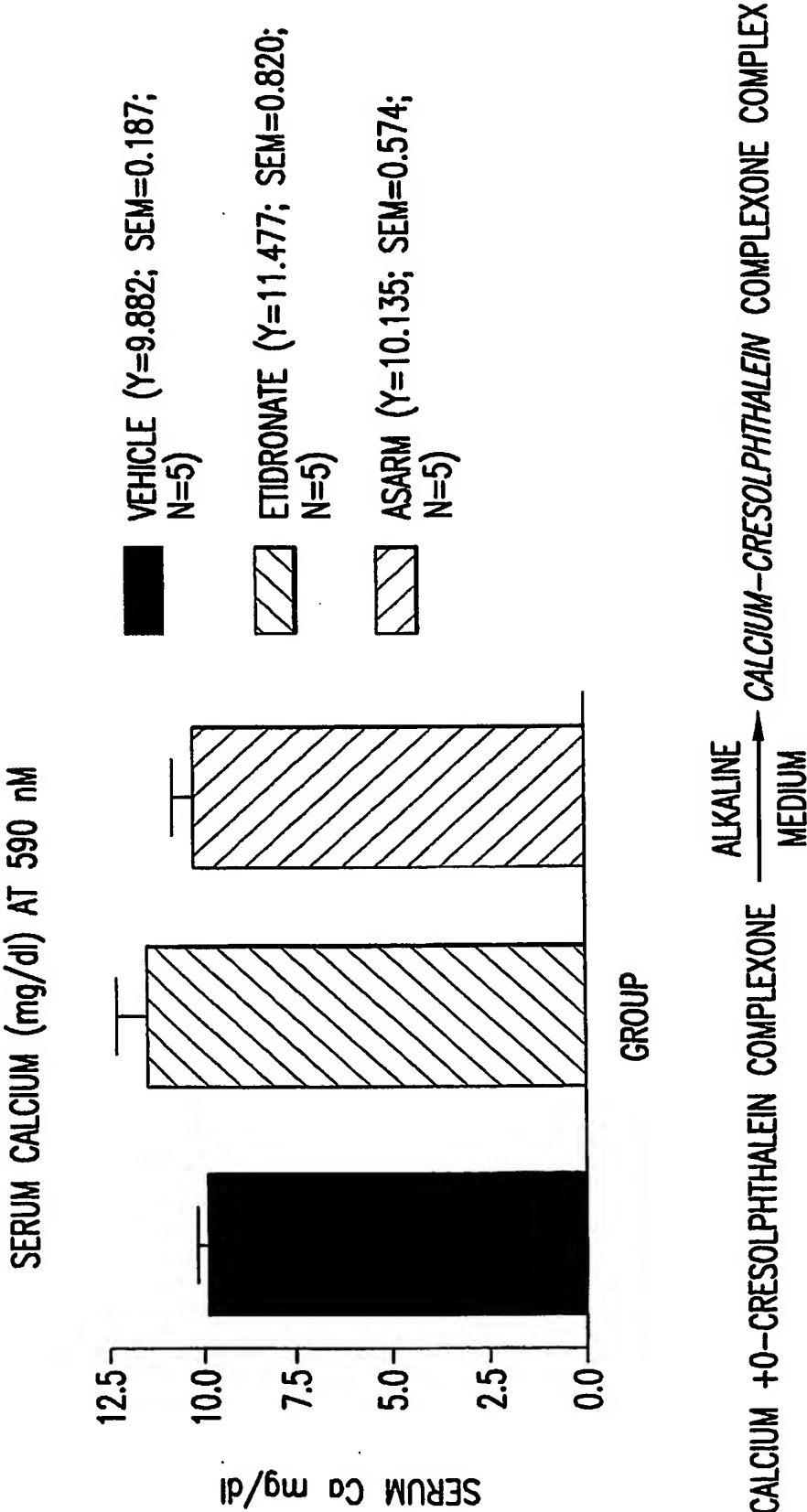


FIG.23



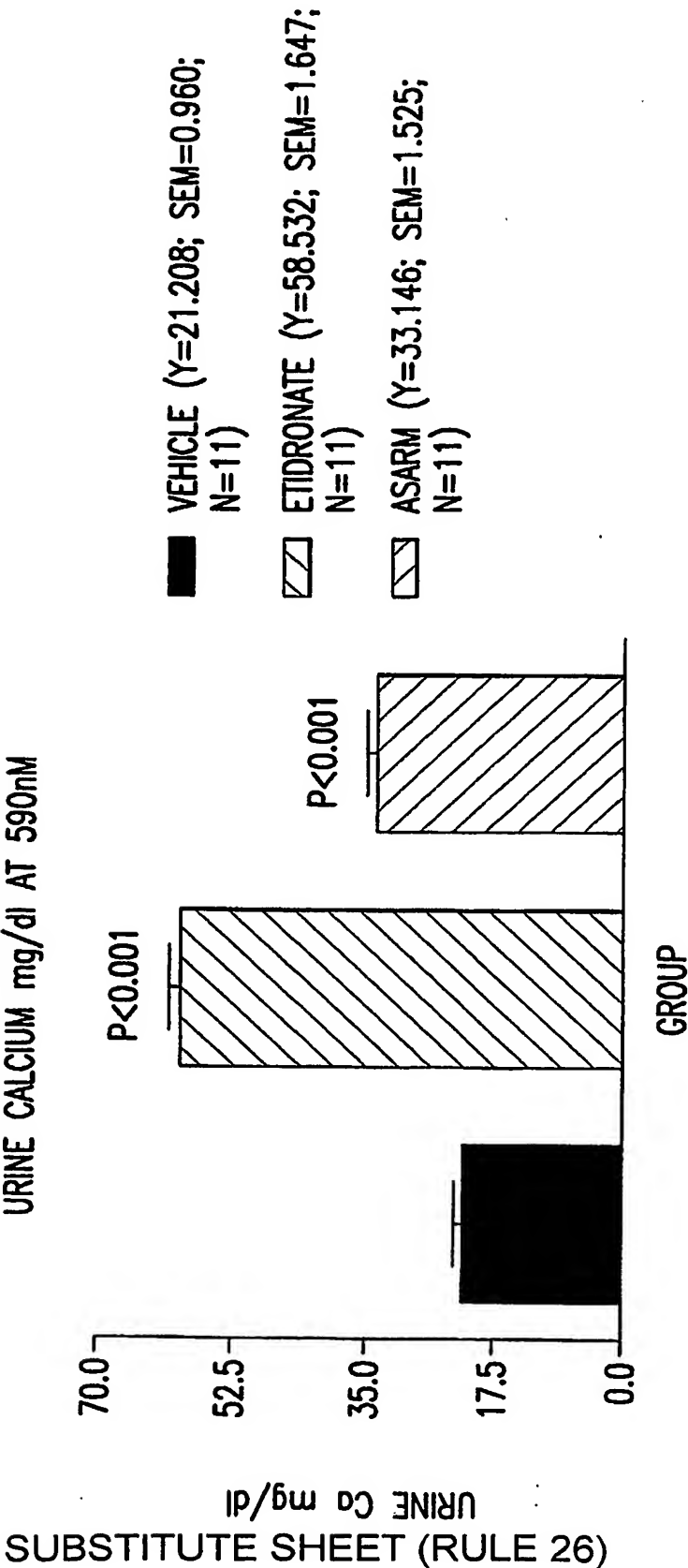
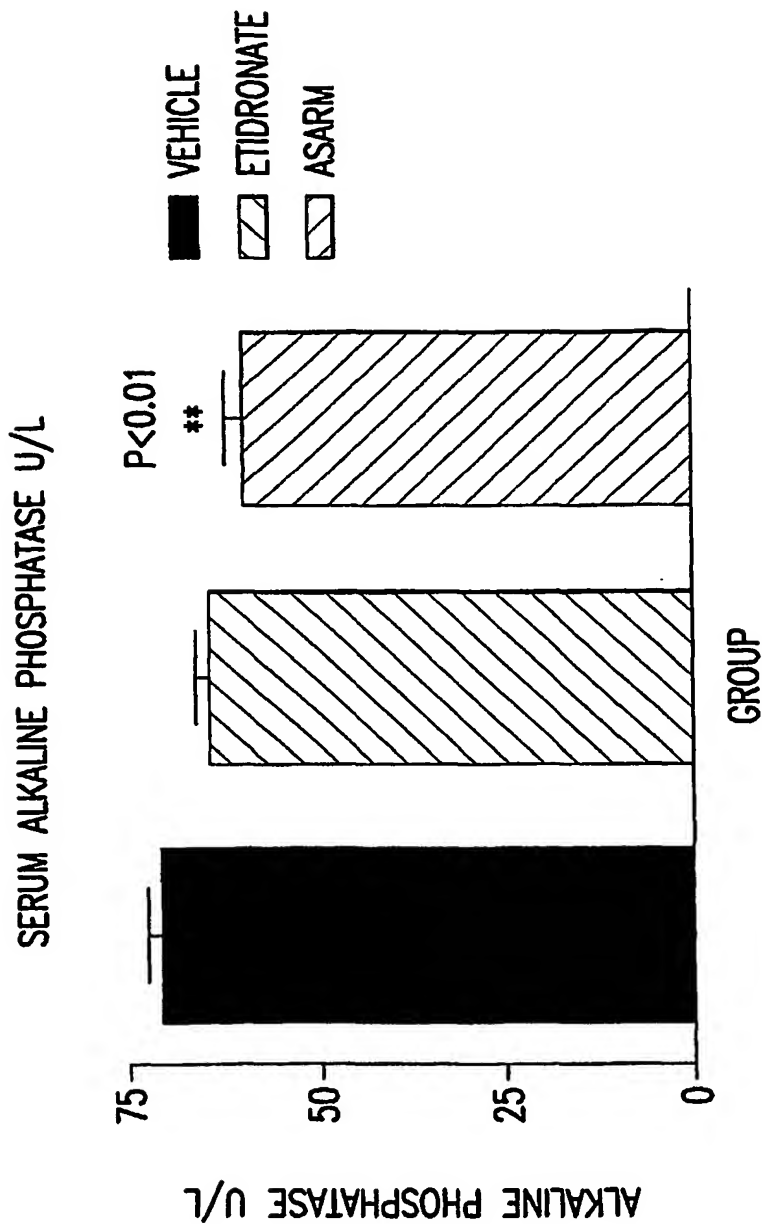


FIG.24



PARAMETER	VALUE	DATA SET-B	DATA SET-C
NEWMAN-KEULS MULTIPLE COMPARISON TEST		q	P VALUE
ASARM vs VEHICLE	-11.21	5.327	P < 0.01
ASARM vs ETIDRONATE	-4.788	2.275	P > 0.05
ETIDRONATE vs VEHICLE	-6.423	3.052	P > 0.05

FIG.25

FLUORESCENCE STAINING CALVARIAE

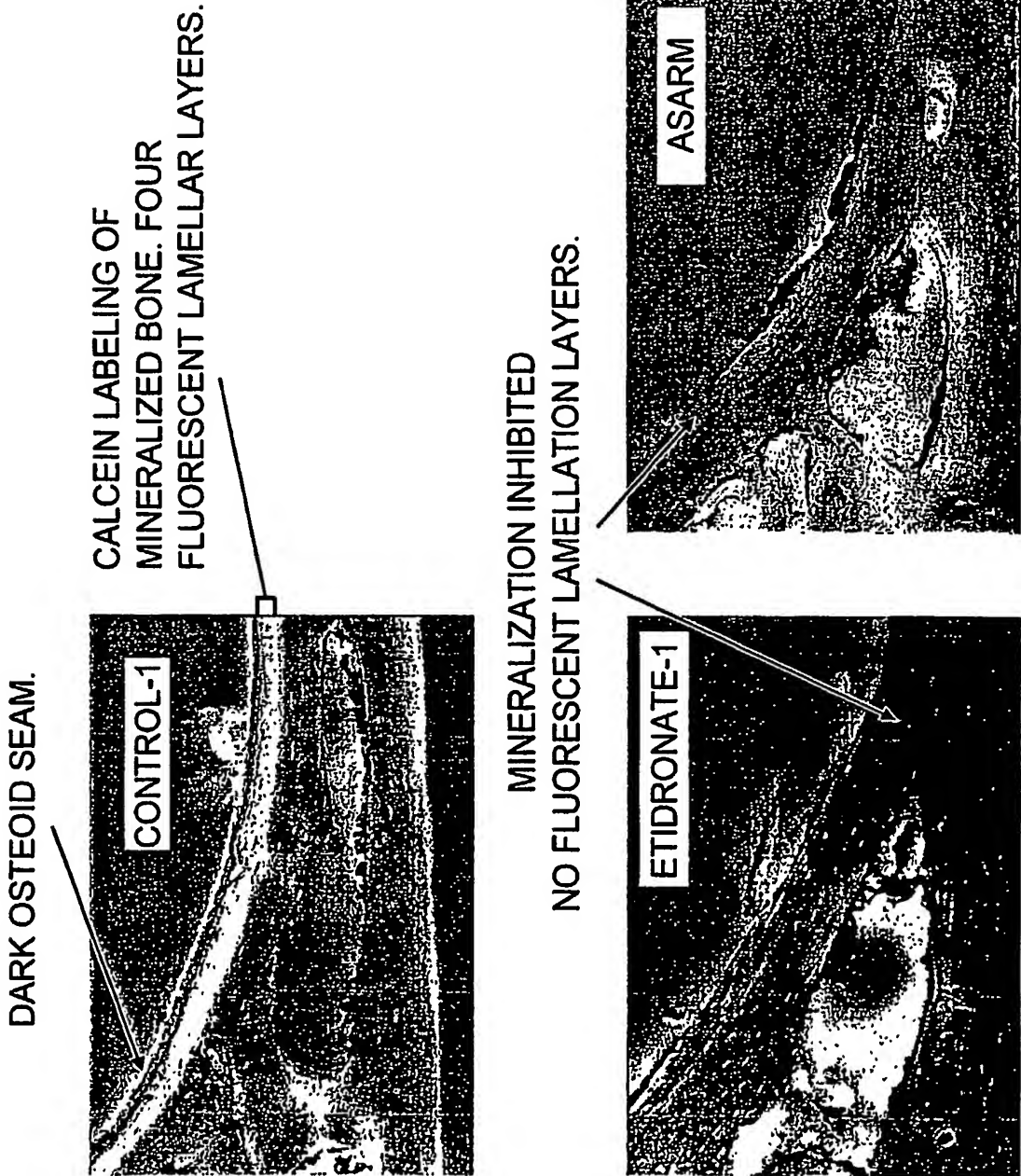


FIG.26

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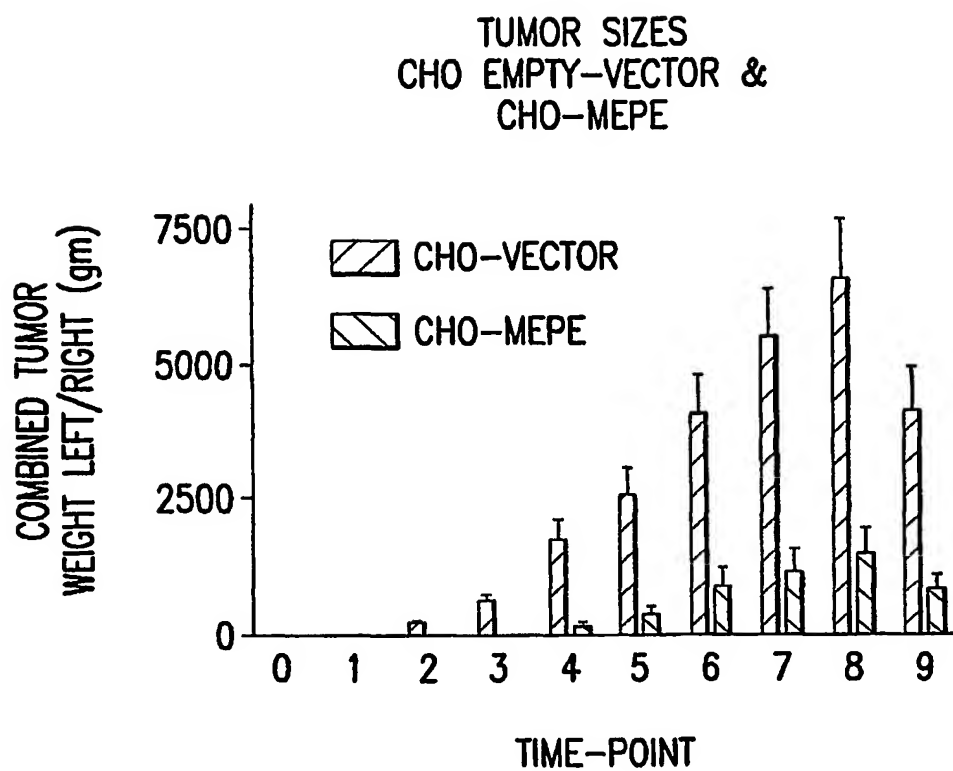


FIG.27

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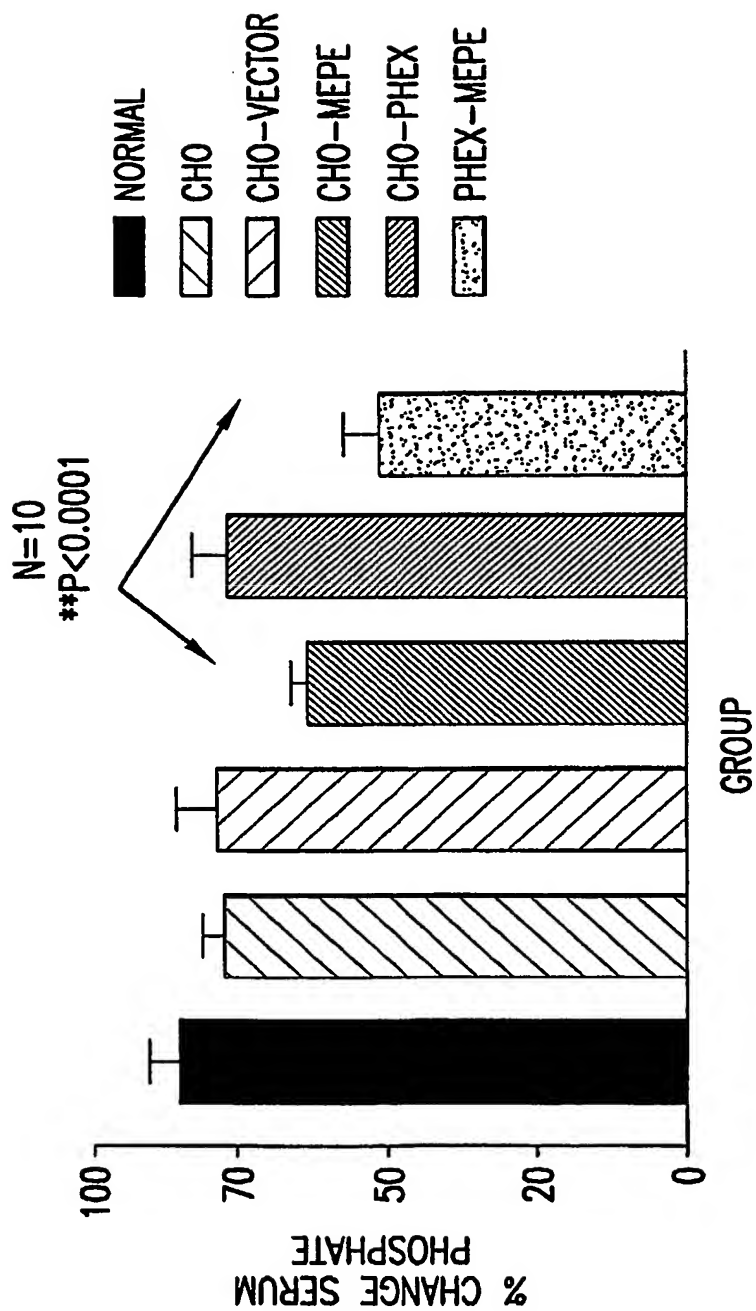


FIG.28

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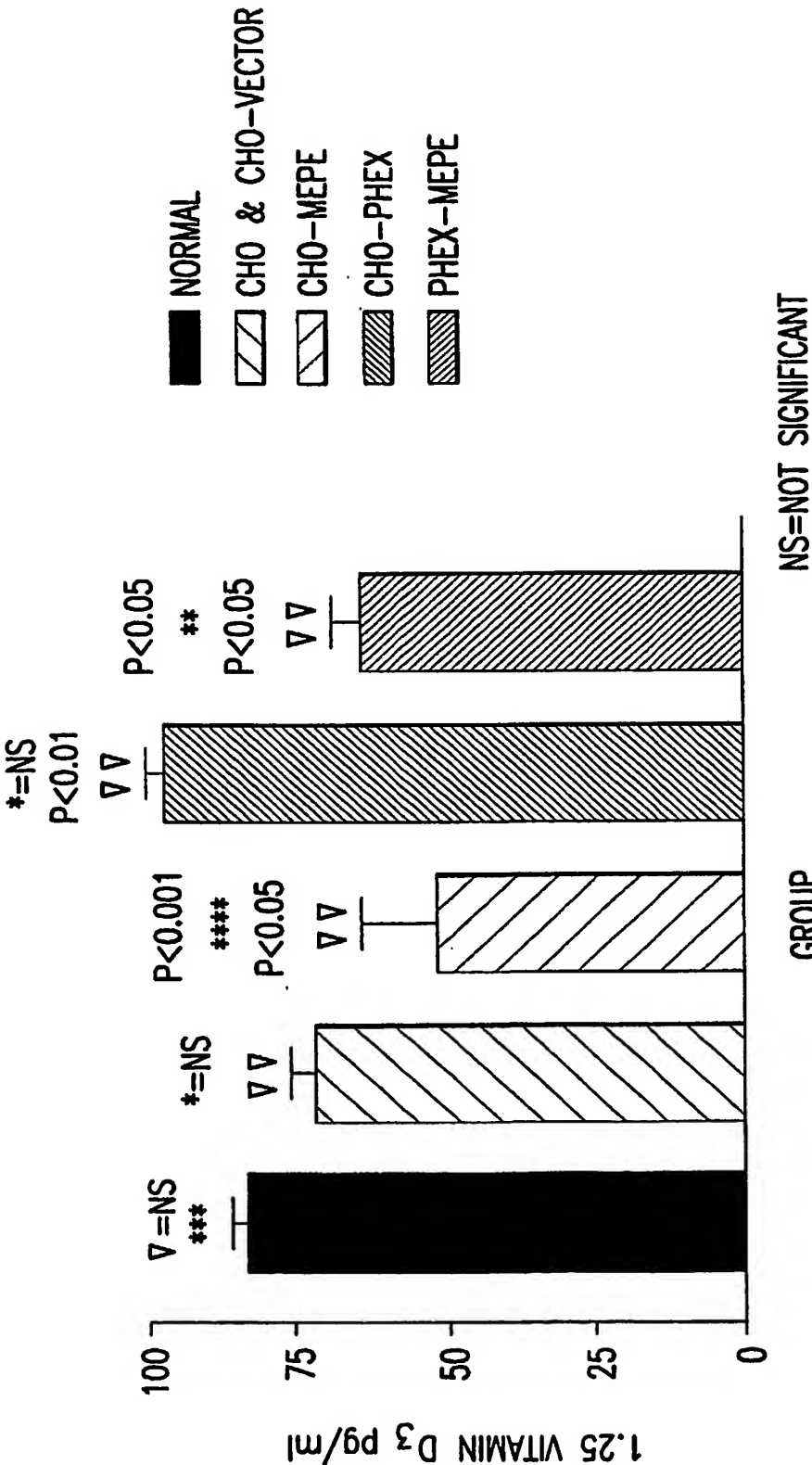


FIG.29

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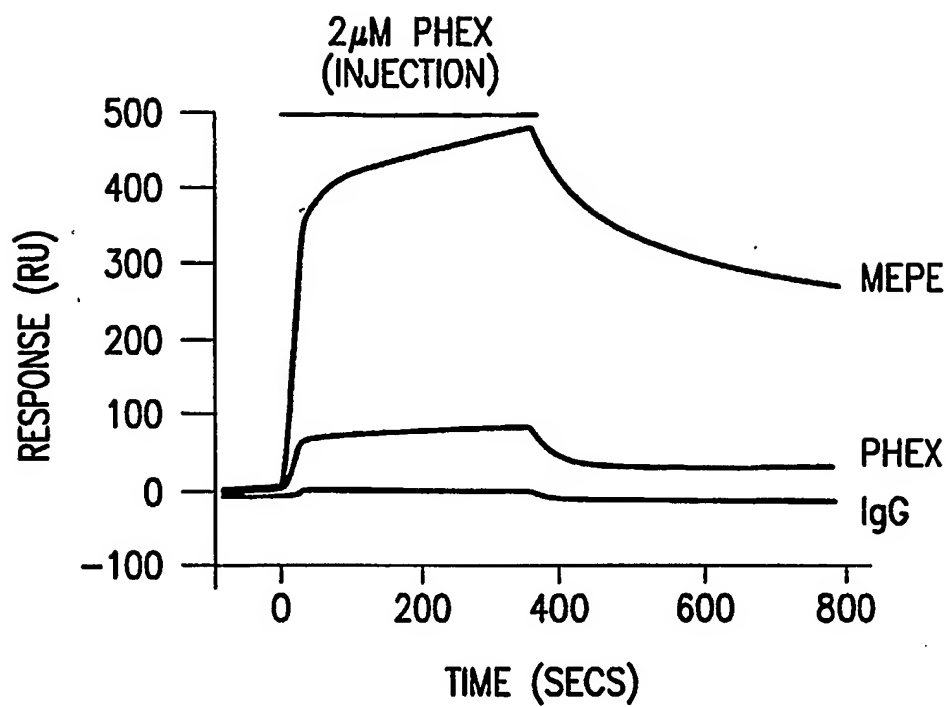


FIG.30

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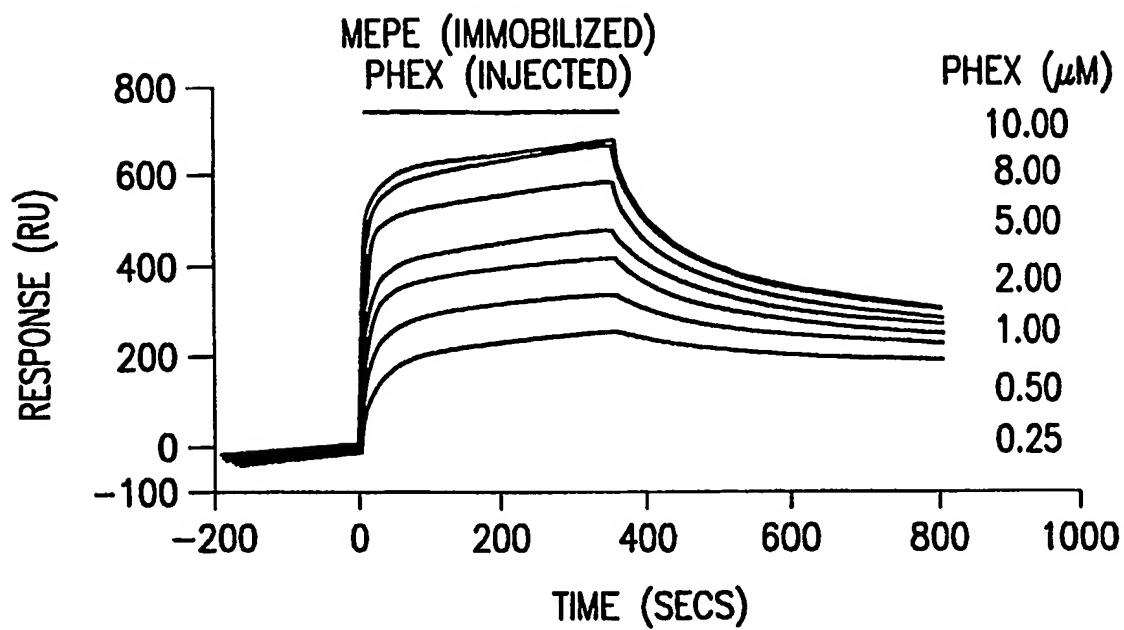


FIG.31



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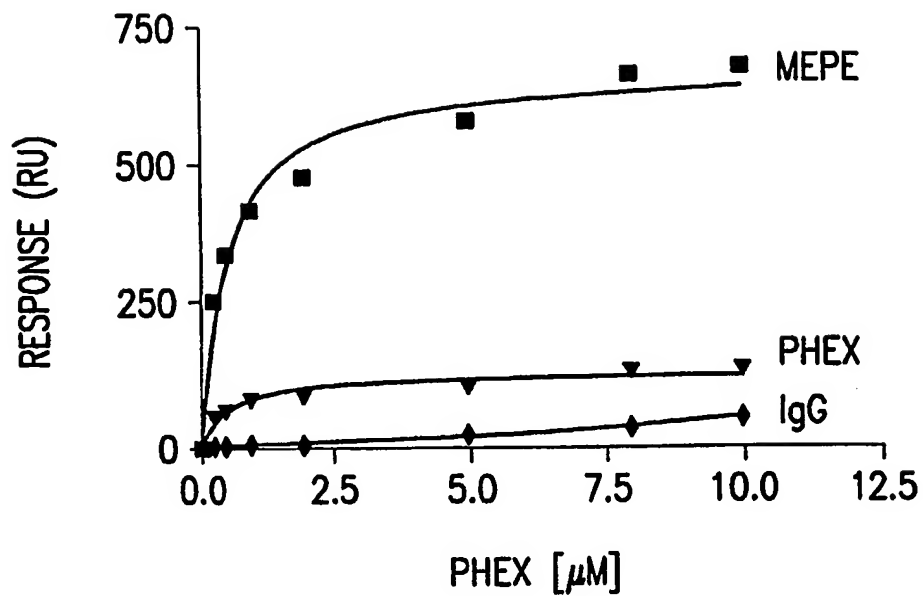


FIG.32A

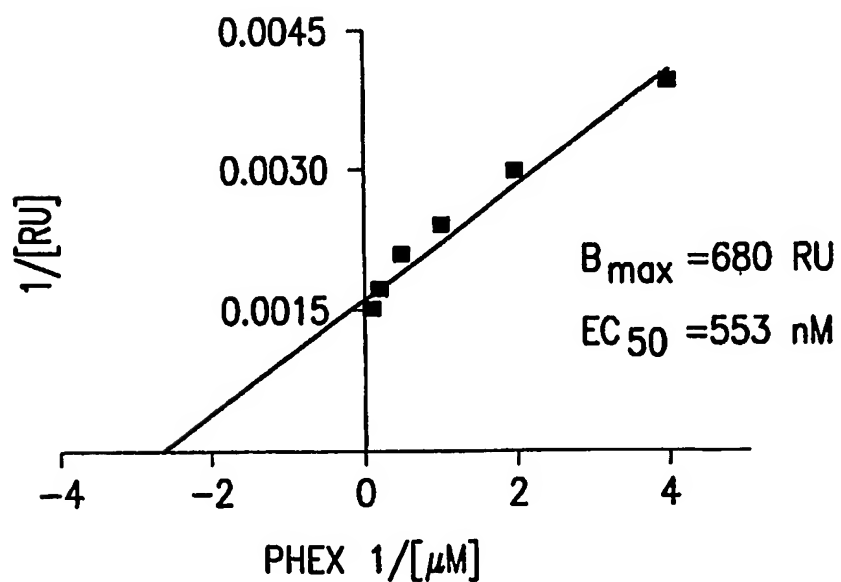


FIG.32B

SUBSTITUTE SHEET (RULE 26)

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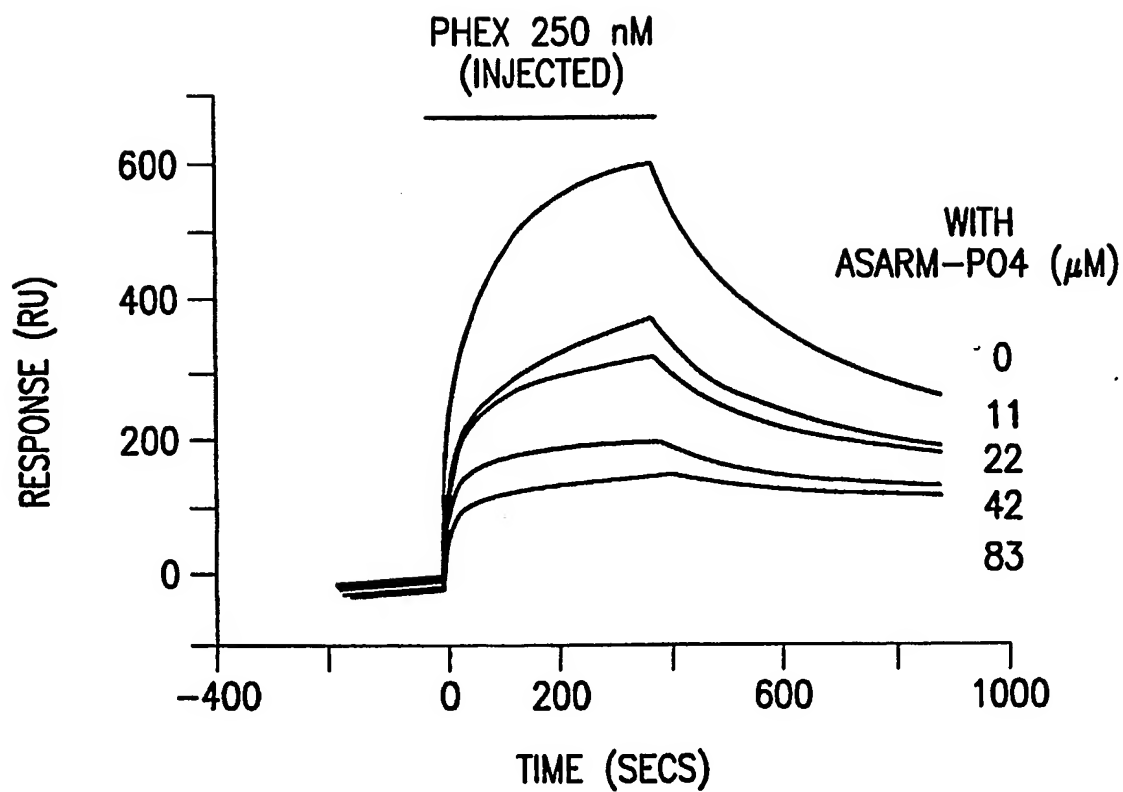


FIG.33

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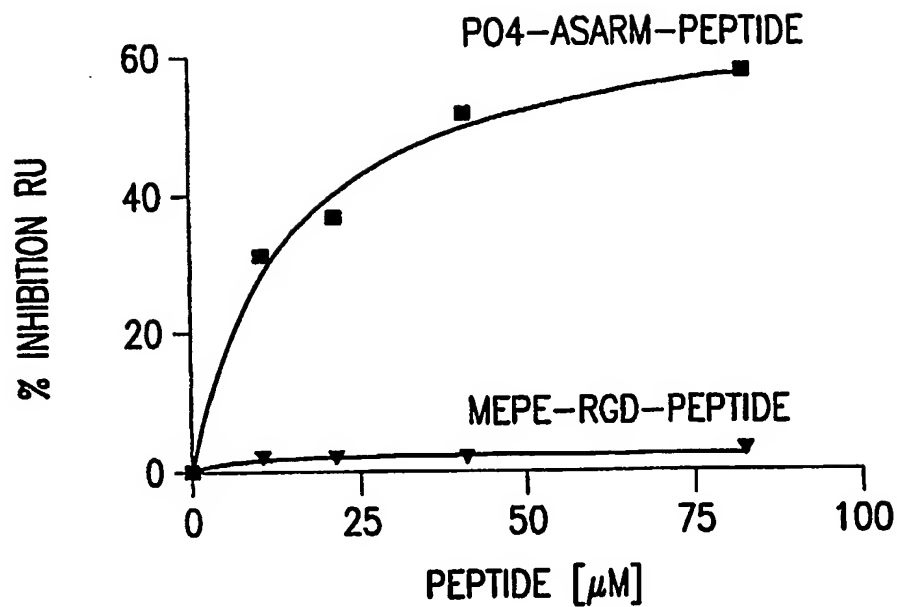


FIG.34A

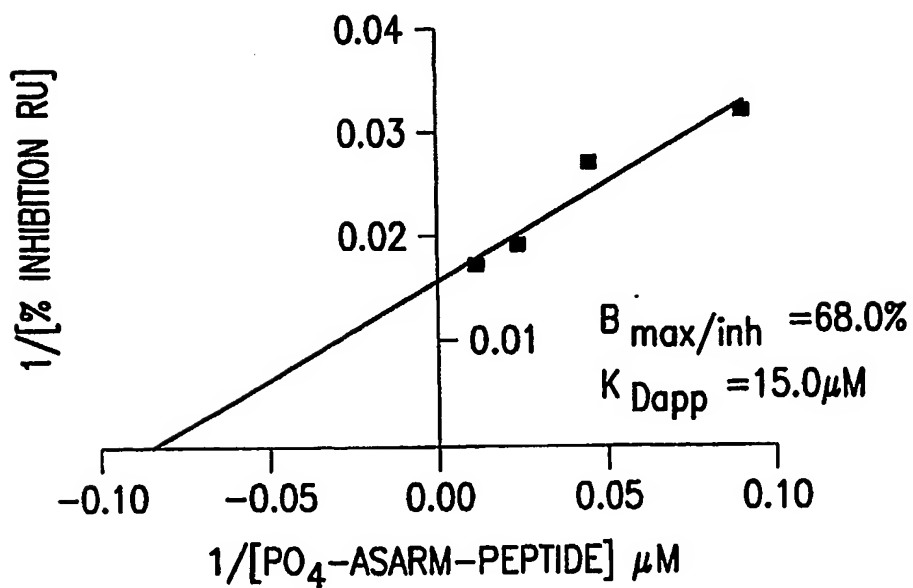


FIG.34B

SUBSTITUTE SHEET (RULE 26)

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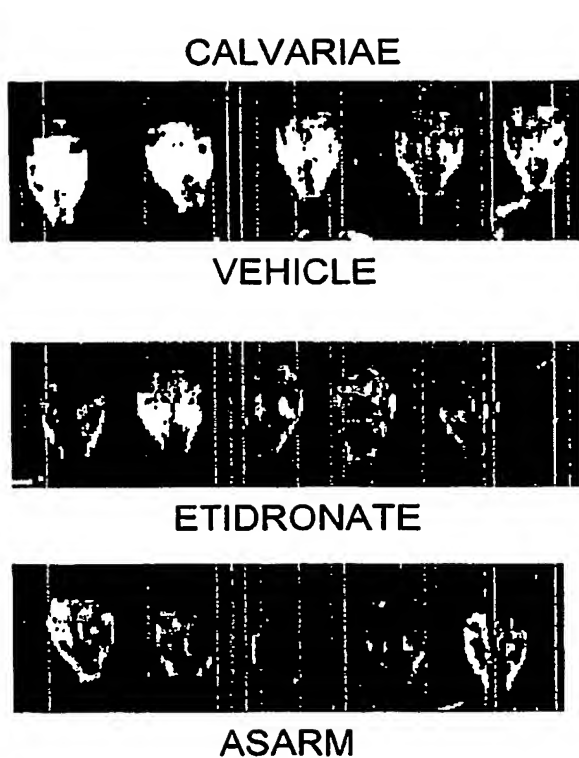


FIG.35A

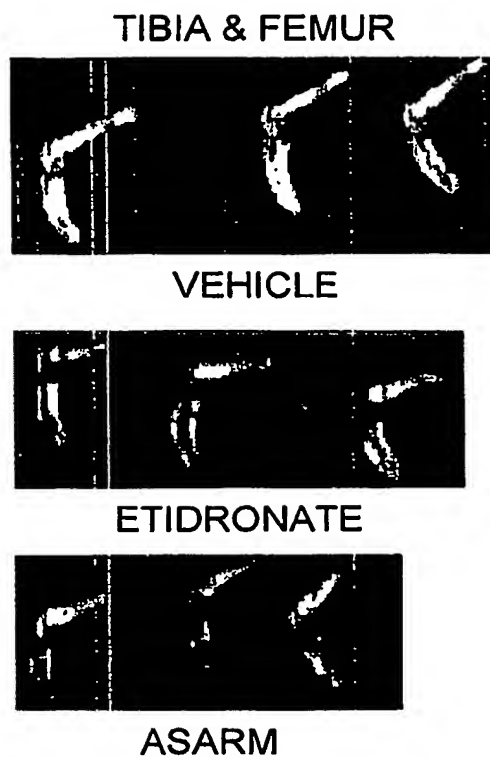


FIG.35B

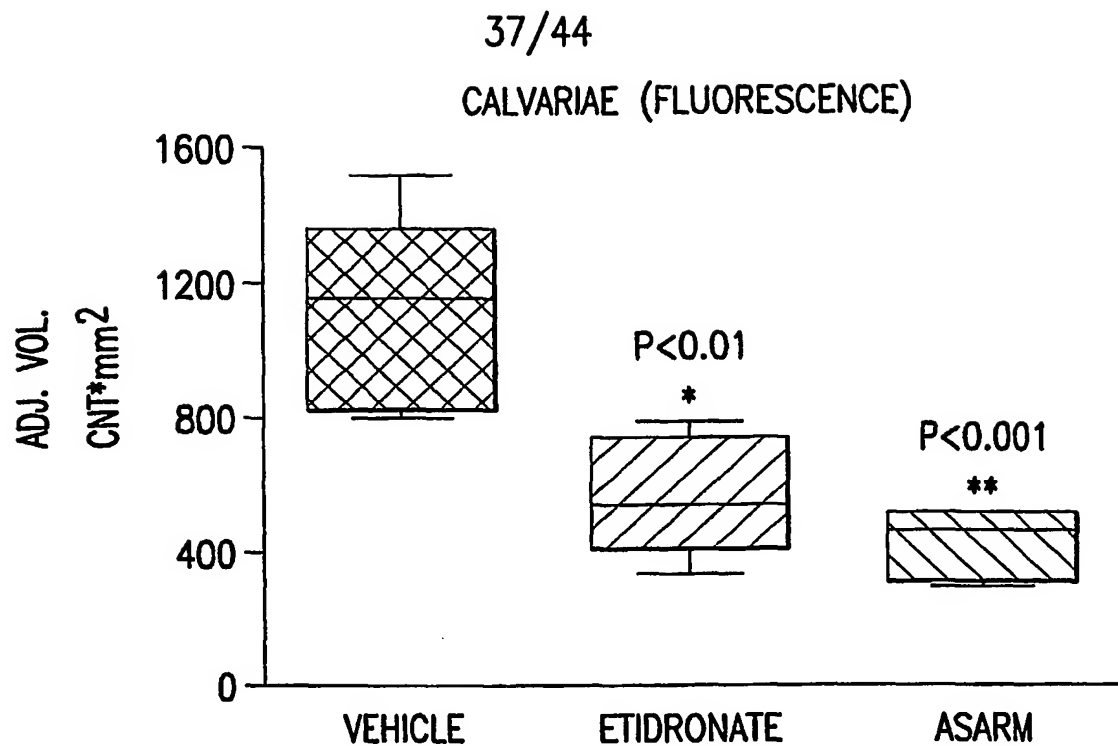


FIG.36A

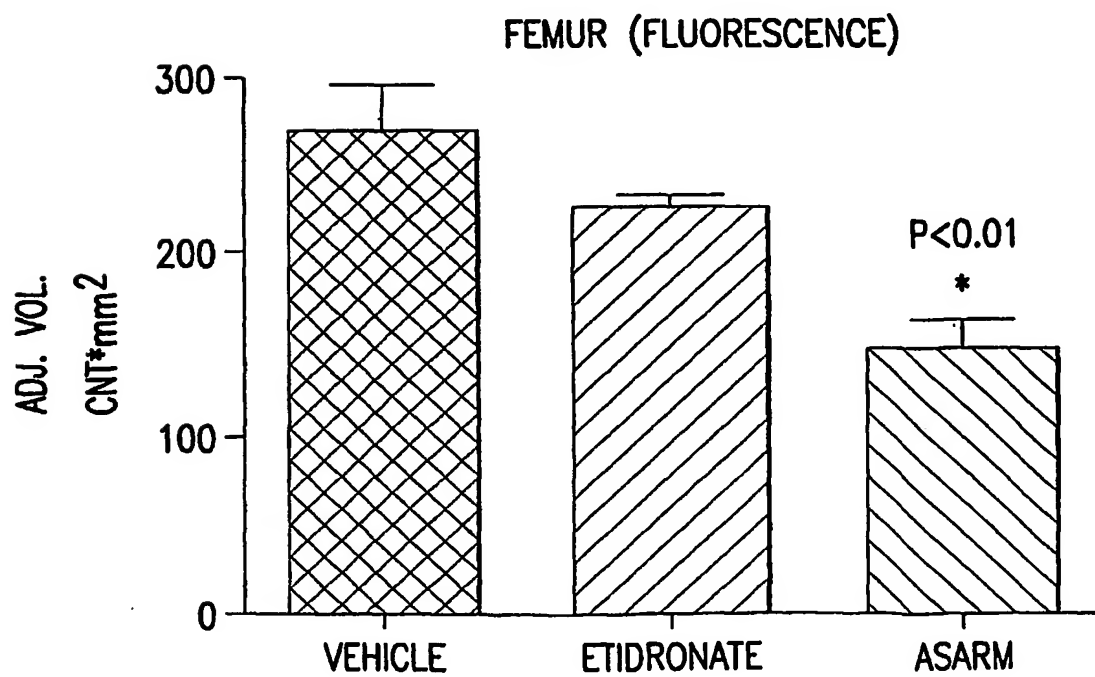


FIG.36B

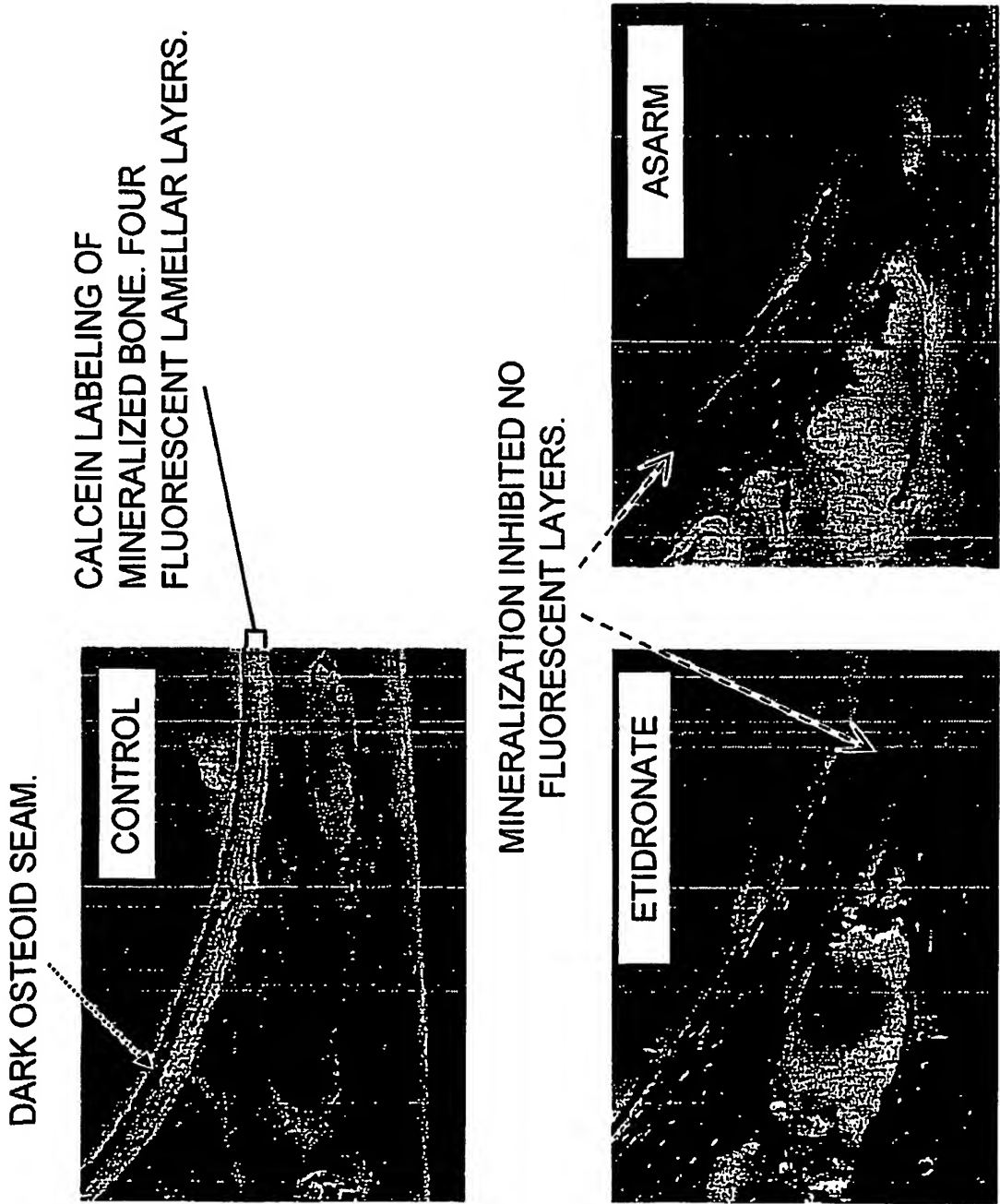


FIG.37

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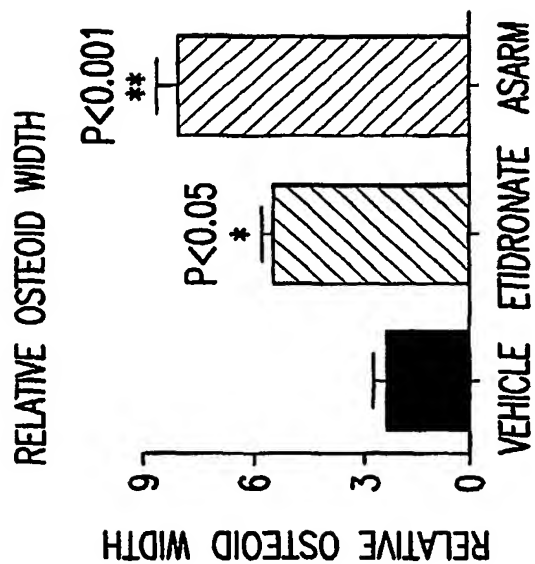


FIG.38



FIG.38A

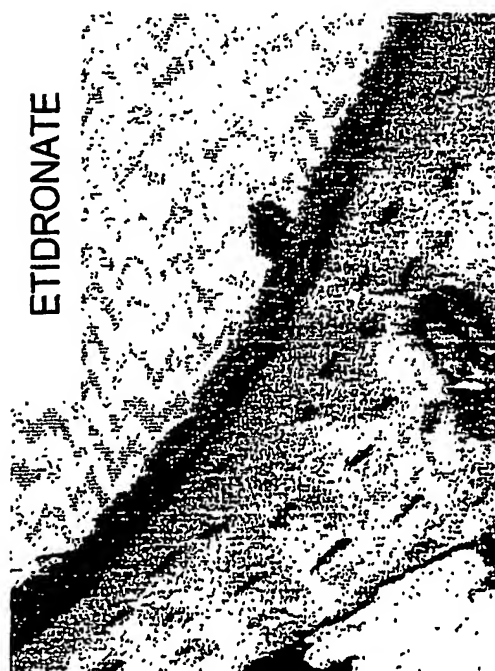


FIG.38B

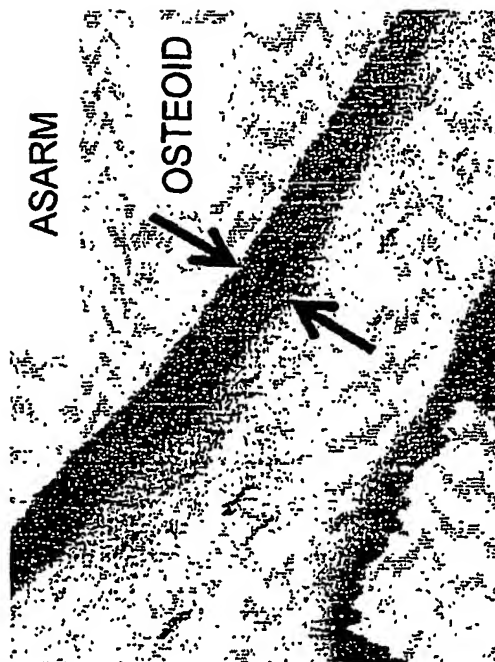


FIG.38C

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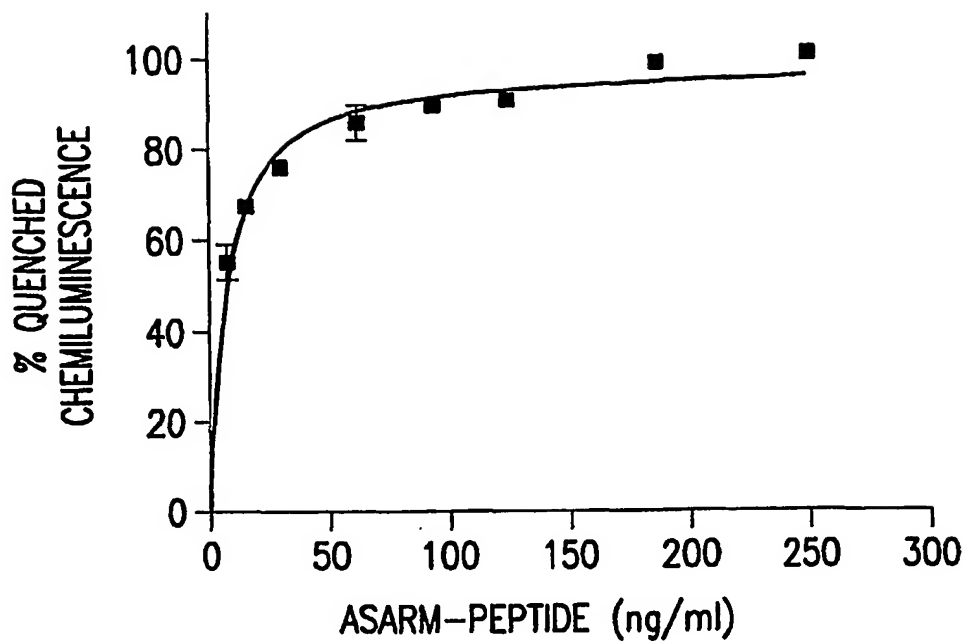


FIG.39A

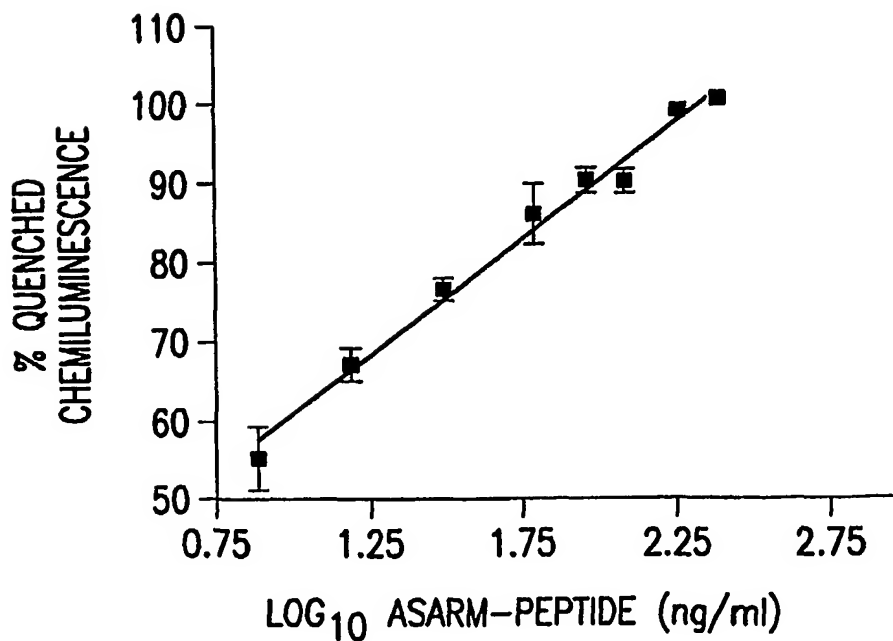


FIG.39B



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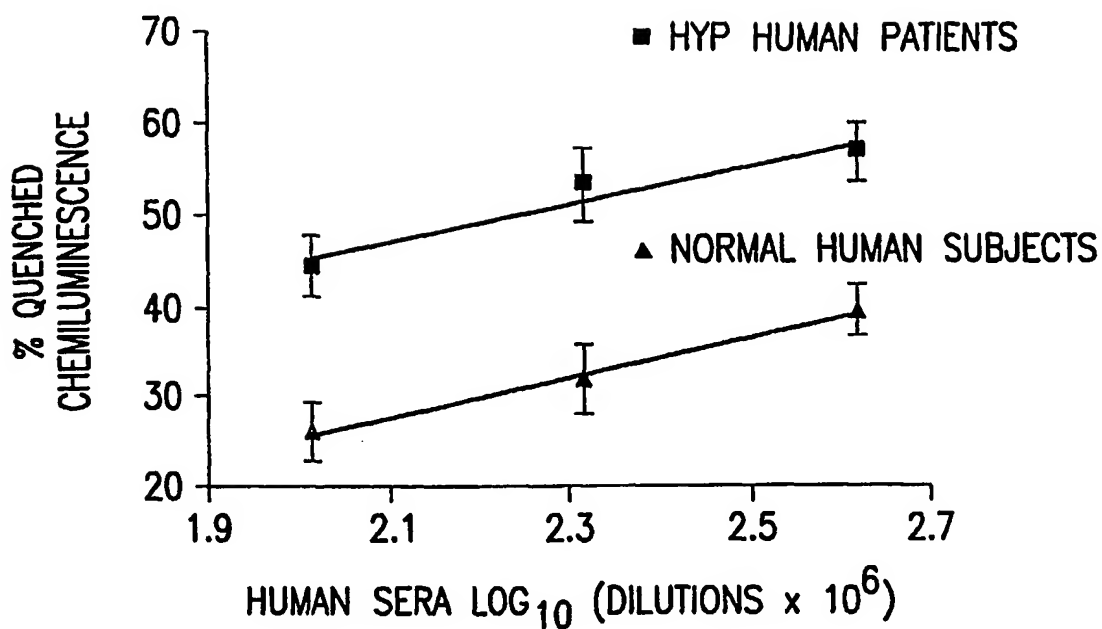


FIG.40A

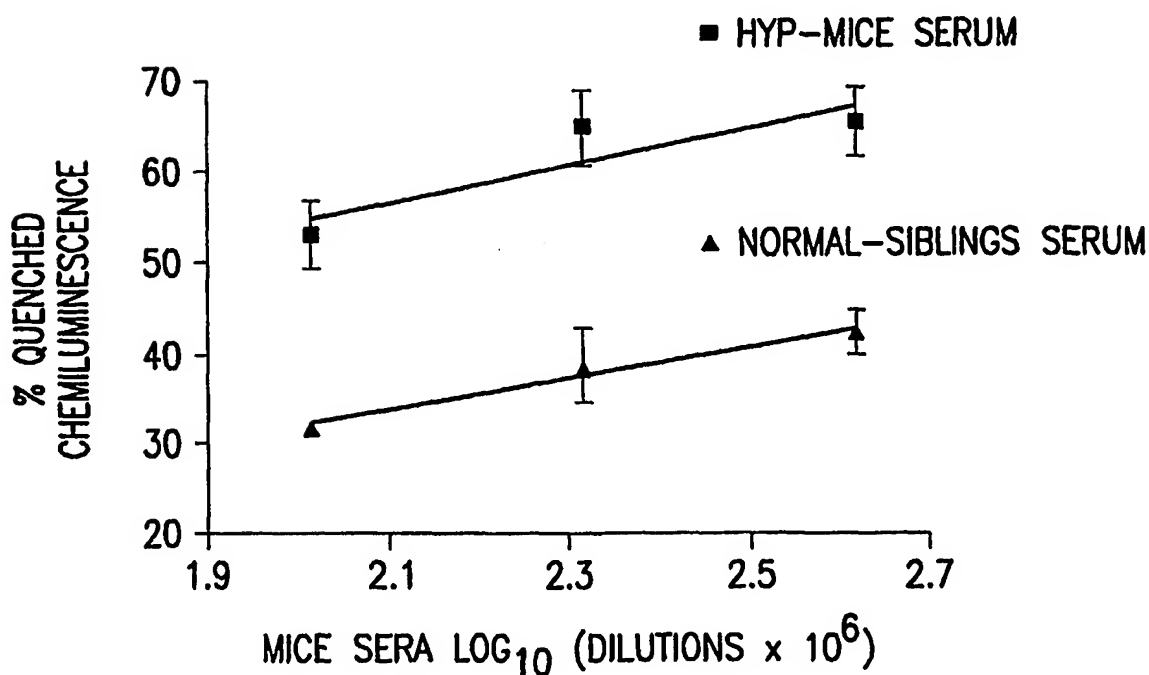


FIG.40B

SUBSTITUTE SHEET (RULE 26)

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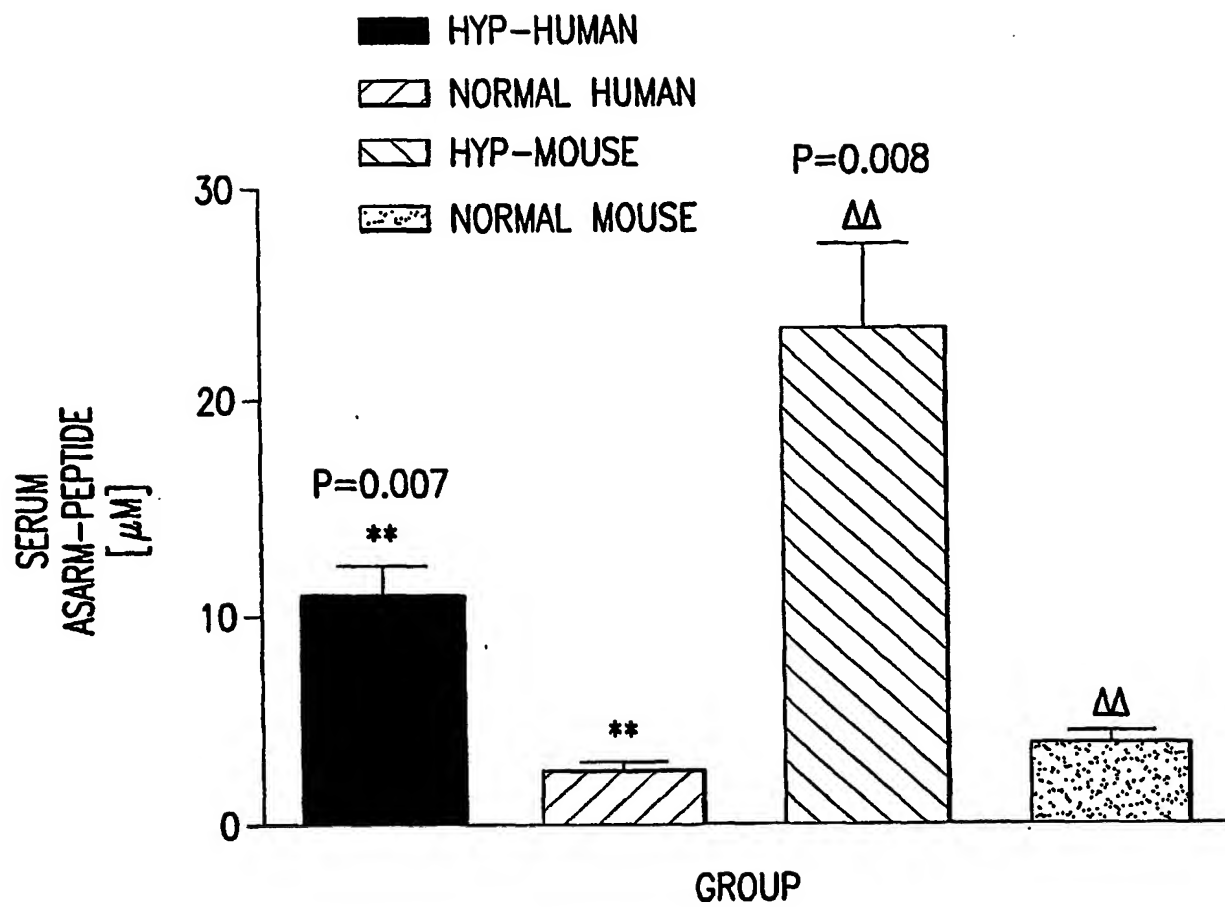


FIG.41

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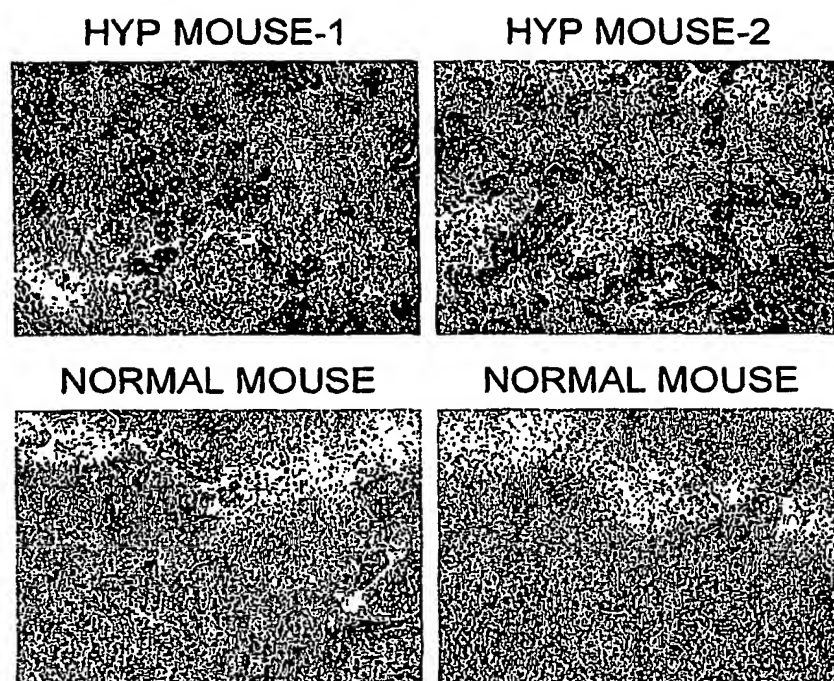


FIG.42

